A Page 1 of 245 ate of New Mexico Incident ID NAPP2227244441

Incident ID	NAPP2227244441
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.		
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.		
○ Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility		
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local limited Name: Garrett Green	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations. Title:SSHE Coordinator Date:6/23/2023		
OCD Only	D ((22)2022		
Received by: Shelly Wells Approved Approved with Attached Conditions of			
Signature: Robert Hamlet	Date: 11/29/2023		

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	NAPP2227244441
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Facility ID	
Application ID	

Release Notification

Responsible Party

				•	,
				OGRID 5	5380
Contact Name Garrett Green				Contact Te	elephone 575-200-0729
Contact email garrett.green@exxonmobil.com			com	Incident #	(assigned by OCD)
Contact mail	ing address	3104 E. Greene St	reet, Carlsbad, Ne	w Mexico, 88220	
			Location	of Release So	ource
Latitude 32	.00075			Longitude	-103.91530
			(NAD 83 in dec	cimal degrees to 5 decim	nal places)
Site Name I	Ross Draw 3	031 CTB		Site Type C	Central Tank Battery
Date Release				API# (if app	olicable)
	Ι α .,	T = 1:	T -		
Unit Letter	Section	Township	Range	Coun	<u>·</u>
Н	31	26S	30E	Eddy	у
Surface Owner	r: State	▼ Federal □ Tr	ribal Private (/	Name: I Volume of H	Release
Crude Oi		l(s) Released (Select a Volume Release		calculations or specific	justification for the volumes provided below) Volume Recovered (bbls)
× Produced		Volume Release			Volume Recovered (bbls) 360.00
			303.54	ved solids (TDS)	Yes □ No
Is the concentration of total dissolved soli in the produced water >10,000 mg/l?					
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)	
Cause of Rel	failed,				s to overflow into lined containment. Liner integrity overed. A third-party cotractor has been retained for

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Page 2 Oil Conservation Division

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W/41-1	ICVEC Constant and a constant and a constant	
Was this a major release as defined by	If YES, for what reason(s) does the respon	
19.15.29.7(A) NMAC?	A release equal to or greater than 25 barre	ıs.
19.13.29.7(11) 11111110.		
🗶 Yes 🗌 No		
TOMES : 11 4	di di OGDA Di la A.T. 1	0.331 11 1 (1 21 (1)
, and the second	·	nom? When and by what means (phone, email, etc)?
Yes, by Jake Foust to ocd	.enviro@state.nm.us, Mike Bratcher, Rober	t Hamlet on 09/16/2022 via email.
	Initial R	esponse
The responsible	party must undertake the following actions immediate.	y unless they could create a safety hazard that would result in injury
The responsible p		
★ The source of the rele	ease has been stopped.	
➤ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
	d doove have <u>nov</u> been undertaken, explain	wily.
NA		
Dow 10 15 20 9 D (4) NIM	(AC) the magneniable ments may examine an ex-	amodiation immediately after discovery of a release. If namediation
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
O 1		please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Č		2277
Printed Name: Garrett G	reen	Title: SSHE Coordinator
T.	At Run	Date: 9/29/2022
Signature:	n · C = Succ ·	
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729
OCD Only		
SSE SMI		
Received by:Jocely	n Harimon	Date: 09/29/2022

Received by OCD: 6/23/2023 11:42:42 AM Form C-141 State of New Mexico Oil Conservation Division Page 3

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Incident ID	NAPP2227244441	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 50 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		

contamination associated with the release have been determined. Refer to 19.13.29.11 NMAC for specifics.
Characterization Report Checklist: Each of the following items must be included in the report.
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody

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

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Incident ID	NAPP2227244441	
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Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: _Garrett Green	Title: _SSHE Coordinator	
Signature:	Date: <u>6</u> /23/2023	
email: _garrett.green@exxonmobil.com	Telephone:575-200-0729	
OCD Only Received by: Shelly Wells	Date: <u>6/23/2023</u>	

State of New Mexico

Incident ID	NAPP2227244441
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.								
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 									
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.								
☐ Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility								
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Garrett Green Title:SSHE Coordinator									
Signature: Satt Sur-									
email:garrett.green@exxonmobil.com	Telephone:575-200-0729								
OCD Only									
Received by: Shelly Wells	Date: <u>6/23/2023</u>								
Approved	Approval Denied Deferral Approved								
Signature:	Date:								



June 23, 2023

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

Re: Deferral Request Ross Draw 3031 CTB

Incident Numbers NAPP2227244441 & NAPP2300442748

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the Ross Draw 3031 Central Tank Battery (CTB; Site) to address impacted soil resulting from a release of produced water at the Site. The excavation and soil sampling activities were conducted as outlined in the *Remediation Work Plan* (*Work Plan*) submitted to the New Mexico Oil Conservation Division (NMOCD) on December 14, 2022. A second release of produced water occurred in the same location at the Site on December 25, 2022 (Incident Number NAPP2300442748). XTO is submitting this *Deferral Request*, describing excavation and soil sampling activities that have occurred and requesting deferral of final remediation for Incident Numbers NAPP2227244441 and NAPP2300442748 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 31, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.00075°N, 103.91530°W; Figure 1) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 15, 2022, a programmable logic controller did not engage alarms, allowing the produced water tanks to overflow and resulting in the release of 365.54 barrels (bbls) of produced water into the lined containment. Liner integrity failed, resulting in the release of fluids to the well pad. A vacuum truck was dispatched to the Site and recovered approximately 360 bbls of the released fluid. The release extent measured approximately 9,270 square feet and most of the release occurred immediately adjacent to and beneath active production equipment. XTO immediately reported the release to the NMOCD via email on September 16, 2022, and submitted a Release Notification Form C-141 on September 29, 2022. The release was assigned Incident Number NAPP2227244441.

On December 25, 2022, a second spill occurred at the Site due to a seal failing on a saltwater disposal (SWD) pump, releasing fluids into the same containment and onto the pad. Approximately 8.35 bbls of produced water were released. A vacuum truck was dispatched to the Site and recovered approximately 6 bbls of the released fluid. The release extent measured approximately 5,290 square feet and most of the release occurred immediately adjacent to and beneath active production equipment. XTO reported

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

the release to the NMOCD and submitted a Release Notification Form C-141 on January 4, 2023. The release was assigned Incident Number NAPP2300442748.

Initial response efforts included recovery of the free-standing fluid from within the containment and lateral and vertical delineation of the impacted soil resulting from the release. The delineation activities and soil sample analytical results were detailed in the *Work Plan* submitted to the NMOCD on December 14, 2022. The *Work Plan* proposed additional delineation activities including delineation within the lined containment, excavation of impacted soil to the maximum extent possible, and requested a sampling variance. On April 26, 2023, the NMOCD denied the sampling variance portion of the *Work Plan* but approved the proposed delineation and excavation activities. NMOCD requested that delineation and excavation activities be completed within 90 days.

As presented in the December 14, 2022, *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between May 11, 2023, and May 19, 2023, Ensolum were at the Site to oversee delineation and excavation activities. As outlined in the *Work Plan*, Ensolum personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Four discrete delineation soil samples were collected from the borehole at depths ranging from 0.5 feet to 3 feet bgs. Four additional boreholes (BH02 through BH05) were advanced by hand auger within and around the release extent to assess the lateral and vertical extent of the release. Discrete soil samples were collected from the boreholes at depths ranging from 0.5 feet to 4 feet below ground surface (bgs). Soil from the boreholes was field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Delineation potholes PH01 through PH07 were completed during November 2022 and were detailed in the December 14, 2022, *Work Plan*. The borehole and pothole locations are depicted on Figure 2. Photographic documentation was completed during delineation and excavation activities, the photographic log can be found in Appendix A. Field screening results and observations for the pothole and borehole delineation samples were logged on lithologic/soil sampling logs, which are included in Appendix B.

The delineation 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 constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long-term storage, but are considered to have been received in acceptable condition.

Excavation activities were completed in the release areas outside of the containment. Impacted soil was removed from the northern, western and southern release areas by use of heavy equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride as described above.



Following removal of soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavations. 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. The excavation soil samples were handled, and analyzed following the same procedures as described above. Floor samples FS01 through FS19 were collected from the floors of the excavations at depths ranging from 1-foot bgs to 4 feet bgs. Sidewall samples SW01 through SW14 were collected from the sidewalls of the excavations from depths ranging from ground surface to 4 feet bgs. Additional areas were hand shoveled to remove stained soil immediately adjacent to active production equipment and above ground piping. The excavation extents, hand shoveled areas, and excavation soil sample locations are presented on Figure 3.

The north excavation measured approximately 1,625 square feet, the west excavation measured approximately 605 square feet, the southwest excavation measured approximately 80 square feet, and the southeast excavation measured approximately 200 square feet. A total of approximately 340 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at a licensed disposal facility. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from borehole BH01, located within the lined containment, indicated that TPH and chloride concentrations exceeded the Closure Criteria at depths of 0.5 feet and 1-foot bgs, directly beneath the tear in the liner. Subsequent delineation samples BH01B and BH01C, collected at 2 feet and 3 feet bgs, respectively, indicated that all COC concentrations were compliant with the Closure Criteria and vertically defined the release extent beneath the containment.

Laboratory analytical results for the delineation soil samples from potholes PH01 and PH03 and borehole BH02, collected within the release extent, indicated that TPH and/or chloride, concentrations exceeded the Closure Criteria at depths ranging from 0.5 feet bgs to 4 feet bgs. The terminal depth sample from pothole PH01, collected at 5 feet bgs, indicated all COC concentrations were compliant with the Closure Criteria and vertically defined the release extent outside of the containment. Laboratory analytical results for the delineation soil samples from potholes PH02, PH04 through PH07 and boreholes BH03 through BH05, collected around the release extent at depths ranging from 0.5 feet to 5 feet bgs, indicated all COC concentrations were compliant with the Closure Criteria and laterally defined the release extent.

Laboratory analytical results for excavation floor samples FS01, FS03, FS04 and sidewall samples SW01 through SW03 and SW10 indicated TPH and/or chloride concentrations exceeded the Closure Criteria. Additional soil was removed from these areas and subsequent soil samples FS05, FS06, FS07 and SW04, SW07 and SW09 were collected in the location of floor samples FS01, FS03, FS04 and sidewall samples SW01 through SW03. Final excavation soil samples FS05, FS06, FS07 and SW04, SW07 and SW09 were compliant with the Closure Criteria. No additional soil could be removed from the area around sidewall sample SW10 due to proximity to active production equipment and surrounding surface pipelines. Laboratory analytical results for sidewall sample SW10 indicated chloride impacted soil remained in place immediately adjacent to active production equipment and surface pipelines. Laboratory analytical results for all final excavation soil samples, with the exception of SW10, indicated all COC concentrations were compliant with the Closure Criteria.

The delineation and excavation soil sample laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.



DEFERRAL REQUEST

Excavation and delineation activities were conducted at the Site as outlined in the Work Plan and in accordance with NMOCD's April 26, 2023, excavation sampling condition. Excavation was conducted to remove as much impacted soil as possible. However, impacted soil remains in-place beneath the lined containment, immediately adjacent to active production equipment, and below active surface pipelines. The impacted soil left in-place contains chloride concentrations ranging from 635 mg/kg to 697 mg/kg and TPH concentrations ranging from 115 mg/kg to 5,020 mg/kg. Impacted soil was left inplace in the areas of pothole PH03, located immediately adjacent to active production equipment, borehole BH01, located within the lined containment, and excavation sidewall sample SW10, located immediately adjacent to active production equipment. XTO is requesting deferral of final remediation in these areas as excavation would require major facility deconstruction. Vertical delineation of the residual impacted soil is defined by the delineation soil samples PH01A collected at 5 feet bgs, BH01B collected at 2 feet bgs, and BH02A collected at 3 feet bgs. Lateral delineation of residual impacted soil is defined by soil samples collected from potholes PH02 and PH04 through PH07 and BH03 through BH05 collected at depths ranging from 0.5 feet bgs to 5 feet bgs. The deferral area includes a maximum of 975 cubic yards of TPH and/or chloride impacted soil remaining in place based on the delineation samples listed above; however, approximately 800 cubic yards of the assumed impacted soil remains in place immediately beneath the lined containment, which will limit migration of impacts.

XTO has made every effort to remove as much impacted soil as possible, including areas immediately surrounding the above ground equipment. Complete lateral and vertical delineation of impacted soil remaining in place has been completed. XTO does not believe deferment of the remaining impacted soil will result in imminent risk to human health, the environment, or groundwater and the impacted soil remaining in place is limited in areal and vertical extent. As such, XTO requests deferral of final remediation for Incident Numbers NAPP222724441 and NAPP2300442748 until final reclamation of the well pad or major construction, whichever comes first.

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

ashley L. ager

Principal

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

Sincerely, **Ensolum, LLC**

Mariaha O'Dell

Mariaha D. O'Dell Associate Geologist

cc: Garrett Green, XTO

Shelby Pennington, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Deferral Area

Table 1 Soil Sample Analytical Results



Appendix A Appendix B Appendix C

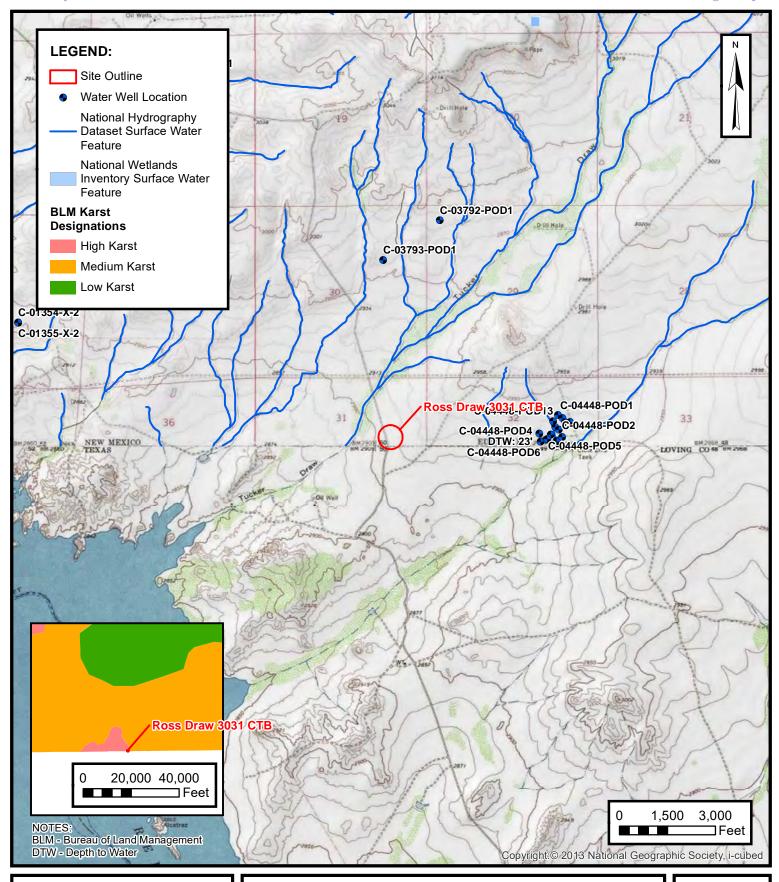
Photographic Log
Lithologic Soil Sampling Logs
Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Notifications





FIGURES



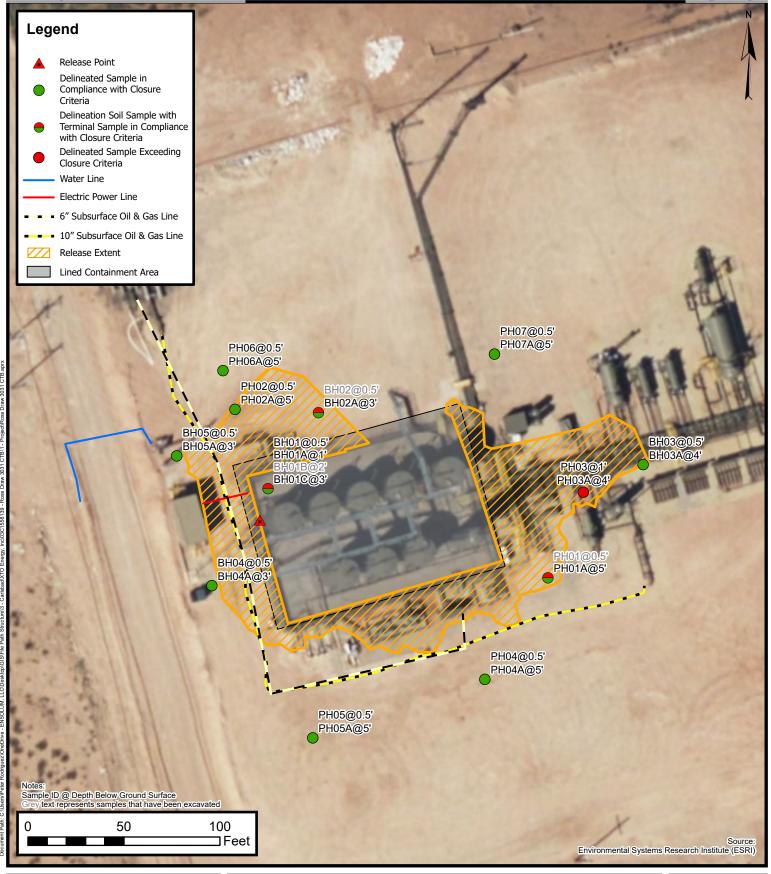


SITE RECEPTOR MAP

XTO Energy, Inc Ross Draw 3031 CTB Incident Number: NAPP2227244441 & NAPP2300442748

Unit H, Section 31, T26S, R30E Eddy County, New Mexico FIGURE

1



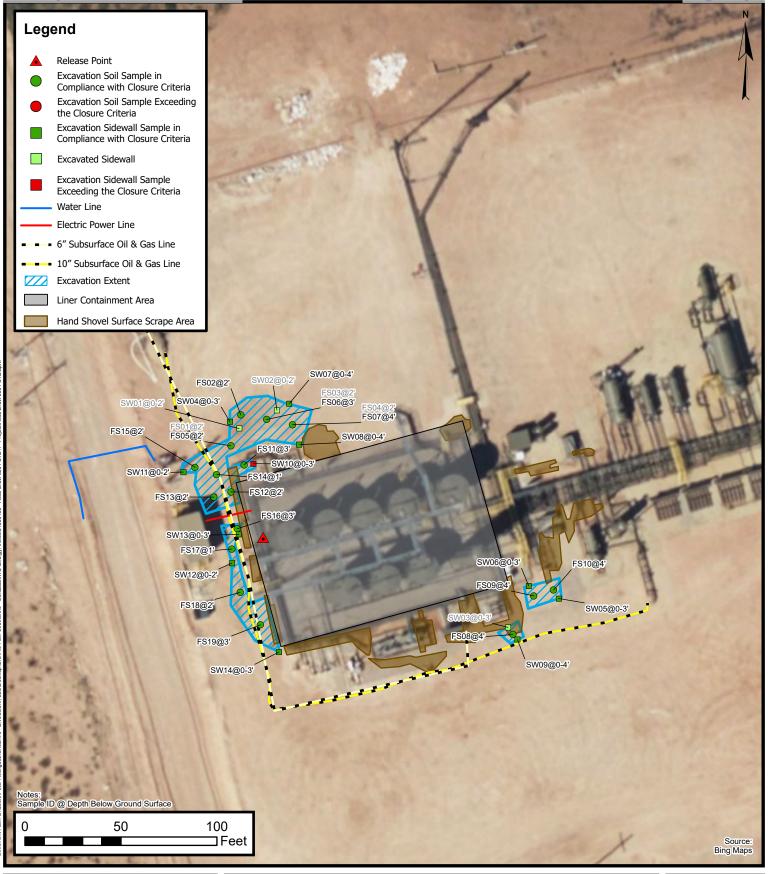


Delineation Soil Samples Locations

XTO Energy, Inc Ross Draw 3031 CTB

Incident Number: NAPP2227244441 & NAPP2300442748

Unit H, Section 31, T26S, R30E Eddy County,New Mexico FIGURE 2



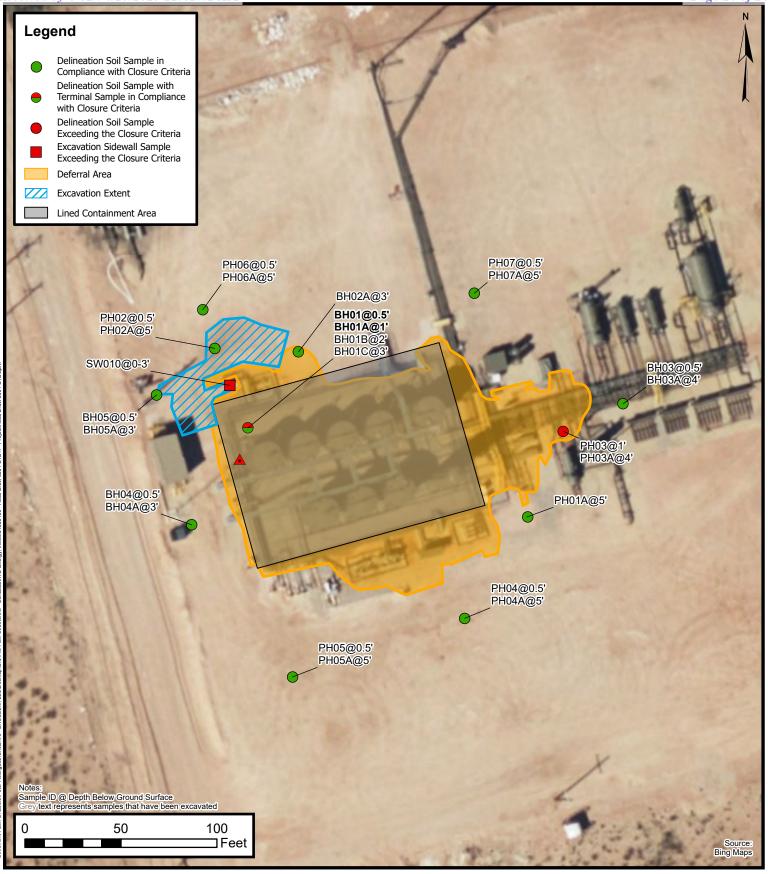


Excavation Soil Sample Locations

XTO Energy, Inc Ross Draw 3031 CTB

Incident Number: NAPP2227244441 & NAPP2300442748

Unit H, Section 31, T26S, R30E Eddy County, New Mexico FIGURE 3





Deferral Area

XTO Energy, Inc Ross Draw 3031 CTB

Incident Number: NAPP2227244441 & NAPP2300442748

Unit H, Section 31, T26S, R30E Eddy County,New Mexico FIGURE **4**



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS ROSS DRAW 3031 CTB XTO ENERGY INC EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sai	mples				
PH01	11/23/2022	0.5	<0.200	73.4	2,410	2,130	<50.0	4,540	4,540	142
PH01A	11/23/2022	5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	50.6
PH02	11/23/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	159
PH02A	11/23/2022	5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	219
PH03	11/23/2022	1	<0.00199	0.0264	141	526	<50.0	667	667	463
PH03A	11/23/2022	4	<0.00200	<0.00401	<49.9	526	<49.9	526	526	53.9
PH04	11/23/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	22.1
PH04A	11/23/2022	5	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	62.8
PH05	11/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	410
PH05A	11/23/2022	5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	21.0
PH06	11/23/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	41.4
PH06A	11/23/2022	5	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	38.2
PH07	11/23/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	253
PH07A	PH07A 11/23/2022		< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	63.4
BH01	BH01 05/12/2023		0.00747	4.44	914	3710	393	4,624	5,020	635
BH01A	05/12/2023	1	< 0.00199	0.0448	<49.9	115	<49.9	115	115	684
BH01B	BH01B 05/12/2023 2		<0.00198	0.0164	<49.8	<49.8	<49.8	<49.8	<49.8	210
BH01C	05/12/2023	3	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	134
BH02	05/17/2023	0.5	<0.000386	<0.00101	49.5	104	<15.0	154	15 4	2,970
BH02A	05/17/2023	3	<0.000383	<0.00101	15.3	32.4	<15.0	47.7	47.7	326
BH03	05/19/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	398
BH03A	05/19/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	114
BH04	05/19/2023	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	450
BH04A	05/19/2023	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	334
BH05	05/19/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	384
BH05A	05/19/2023	3	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	100



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS ROSS DRAW 3031 CTB XTO ENERGY INC EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Exc	avation Floor Sar	nples				
FS01	05/12/2023	2	<0.00200	<0.00399	<49.8	187	<49.8	187	187	1,680
FS05	05/15/2023	3	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	71.6
FS02	05/12/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	415
FS03	05/12/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	1,150
FS06	05/15/2023	3	< 0.00200	<0.00401	<49.9	52.6	<49.9	<49.9	52.6	63.9
FS04	05/12/2023	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	907
FS07	05/16/2023	4	< 0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	55.4
FS08	05/16/2023	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	59.1
FS09	05/16/2023	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	106
FS10	05/16/2023	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	74.2
FS11	05/16/2023	3	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	346
FS12	05/16/2023	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	220
FS13	05/16/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	145
FS14	05/16/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	125
FS15	05/16/2023	2	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	147
FS16	05/17/2023	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	83.8
FS17	05/17/2023	1	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	335
FS18	05/17/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	92.6
FS19	05/17/2023	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	103
				Exca	ation Sidewall S	amples				
SW01	05/12/2023	0-2	<0.00200	<0.00401	<49.8	108	<49.9	108	108	413
SW02	05/12/2023	0-2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<49.9	<50.0	757
SW03	05/15/2023	0-3	<0.00199	<0.00398	<50.0	404	<50.0	404	404	123
SW04	05/15/2023	0-3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	120
SW05	05/15/2023	0-3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	90.7
SW06	05/15/2023	0-3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	83.3
SW07	05/16/2023	0-4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	100
SW08	05/16/2023	0-4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	108
SW09	05/16/2023	0-4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	98.9



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS **ROSS DRAW 3031 CTB XTO ENERGY INC EDDY COUNTY, NEW MEXICO**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW10	05/16/2023	0-3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	697
SW11	05/17/2023	0-2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	576
SW12	05/17/2023	0-2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	132
SW13	05/17/2023	0-3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	114
SW14	05/17/2023	0-3	<0.00199	<0.00398	<50.0	79.5	<50.0	79.5	79.5	201

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

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



APPENDIX A

Photographic Log



Photographic Log XTO Energy, Inc Ross Draw 3031 CTB

Incident Number nAPP2227244441 & NAPP2300442748





Photograph 1 Date: 5/02/2023 Description: Site assessment activities, release extent.

View: West

Photograph 2 Date: 5/02/2023 Description: Site assessment activities, release extent.

View: North





Photograph 3 Date: 5/02/2023 Photograph 4 Date: 5/02/2023

Description: Liner inspection Description: Liner delineation, BH01

View: South View: South



Photographic Log XTO Energy, Inc Ross Draw 3031 CTB

Incident Number nAPP2227244441 & NAPP2300442748





Photograph 5 Date: 5/16/2023

Description: Delineation activities, BH01 liner patch

View: South

Photograph 6 Date: 5/19/2023

Description: Delineation activities, BH03

View: North





Photograph 7

Date: 5/15/2023

Photograph 8

Date: 5/17/2023

Description: South excavation

View: North

Description: West excavation

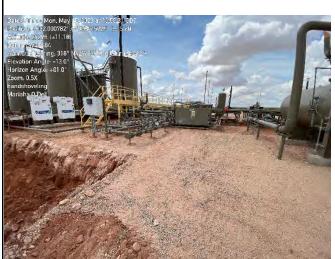
View: East



Photographic Log XTO Energy, Inc Ross Draw 3031 CTB

Incident Number nAPP2227244441 & NAPP2300442748





Photograph 9

Description: West excavation

View: South

Date: 5/17/2023

Photograph 10

Date: 5/15/2023

Description: Surface scrape

View: North





Photograph 11

Date: 5/15/2023

Photograph 12

Date: 5/17/2023

Description: Surface scrape

View: West

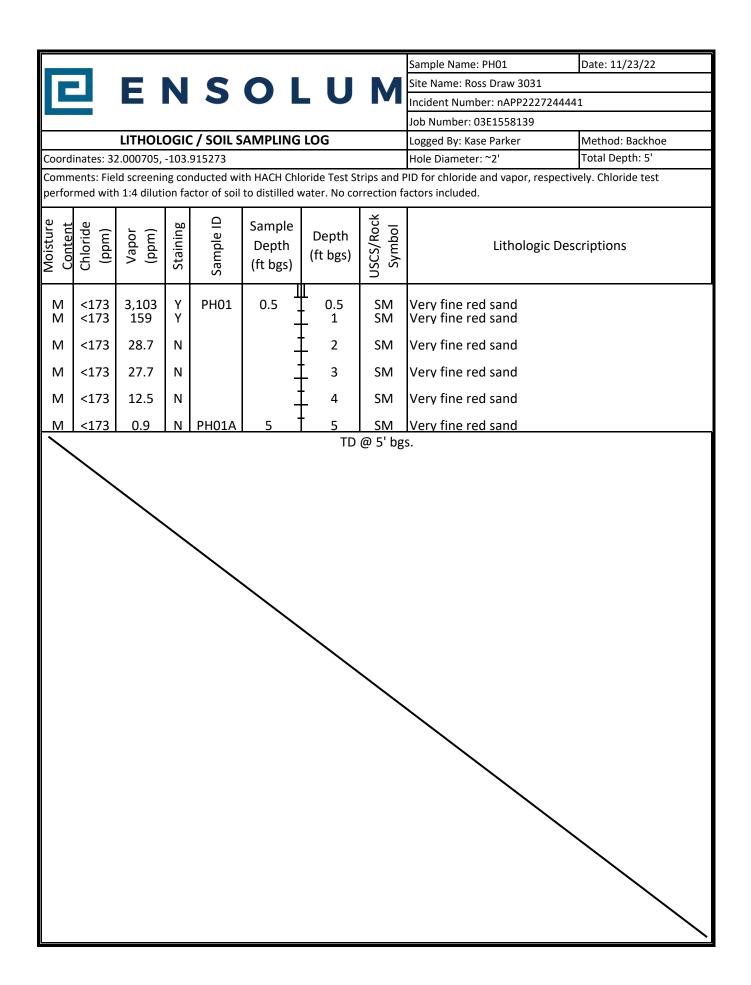
Description: Surface scrape

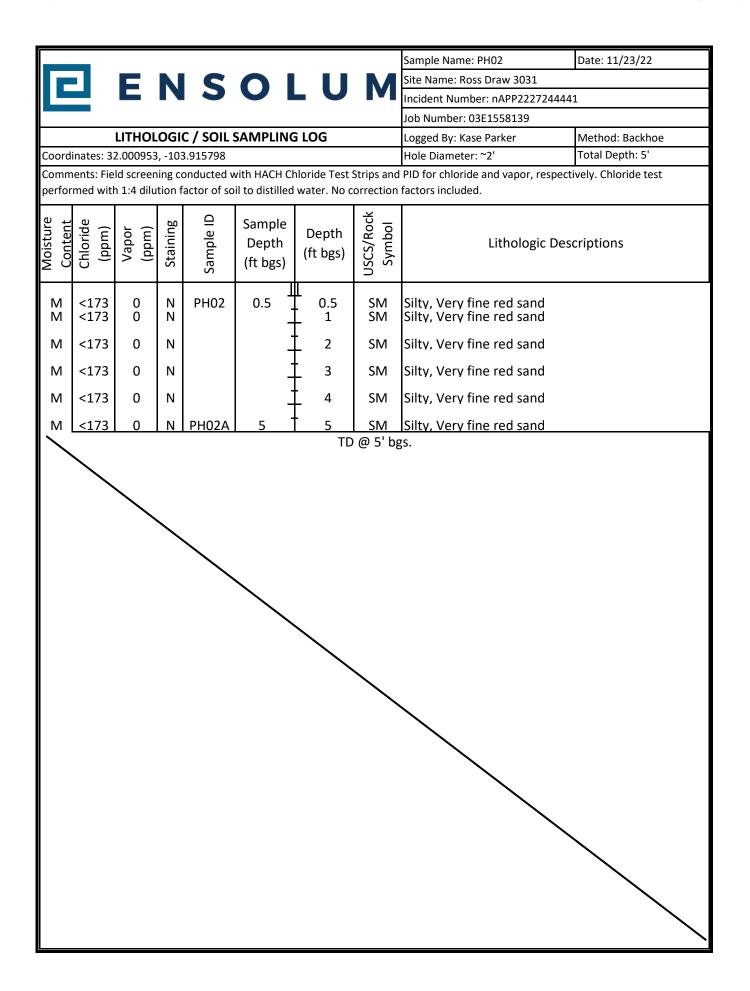
View: East

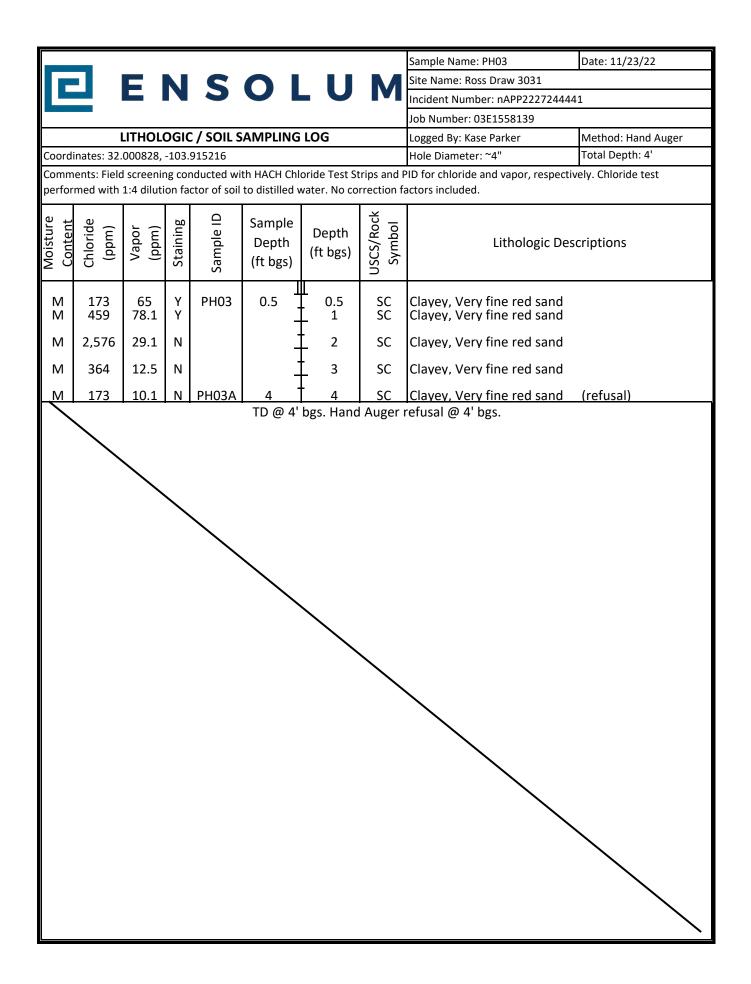


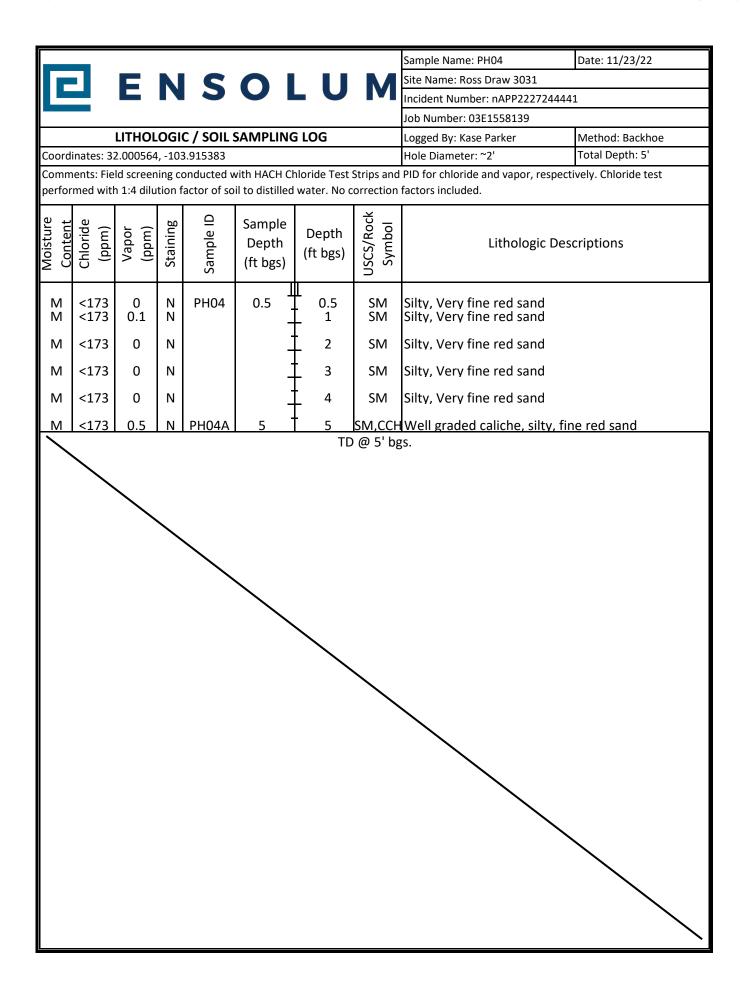
APPENDIX B

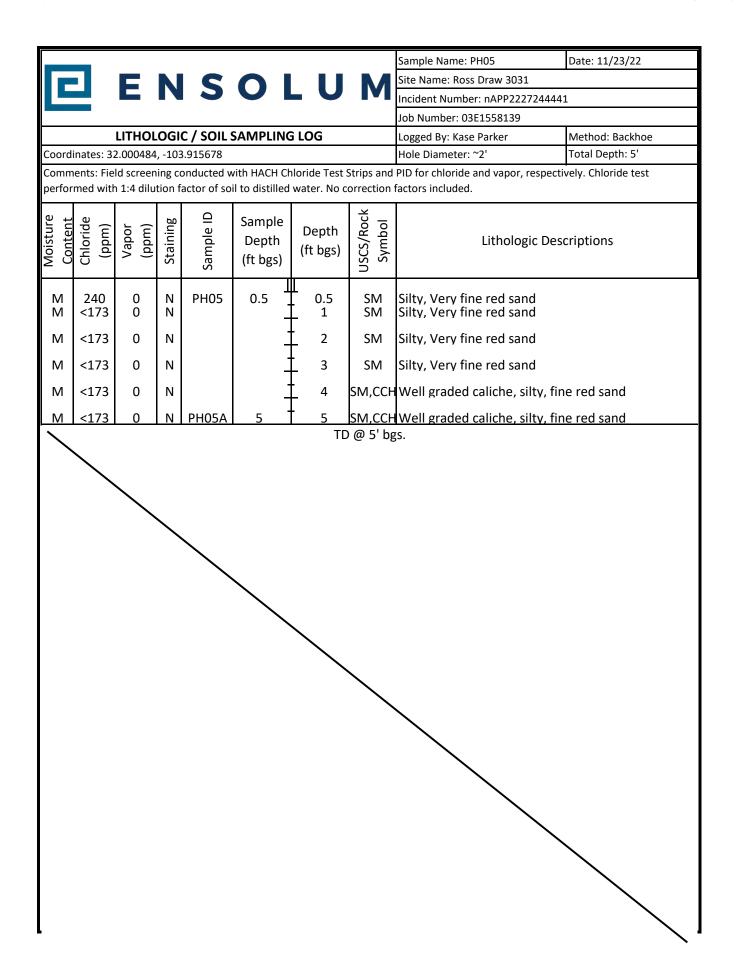
Lithologic Soil Sampling Logs

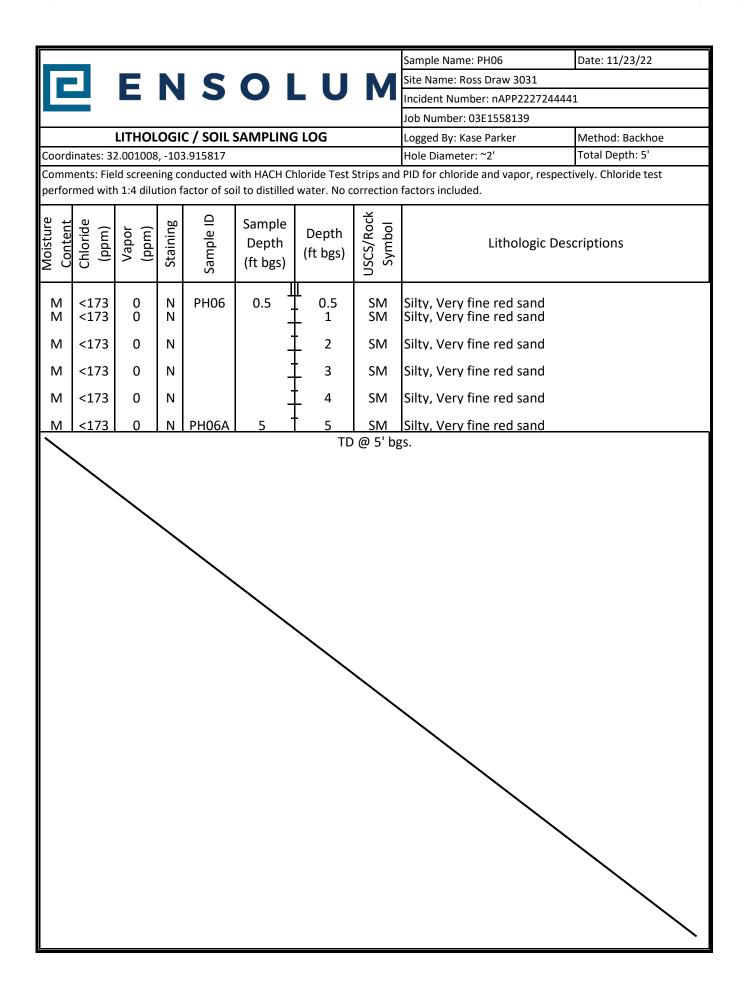


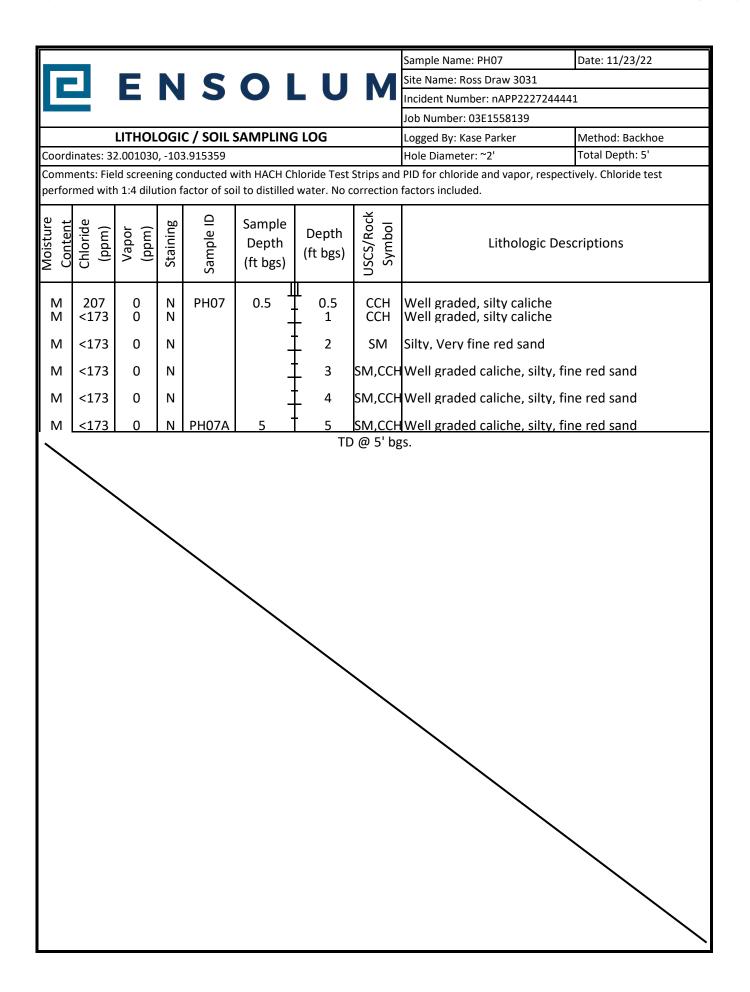


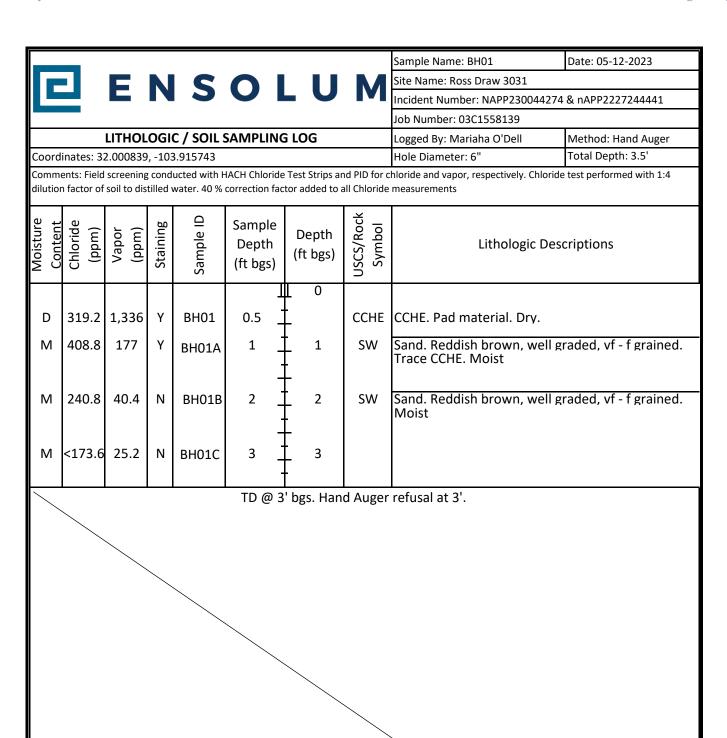


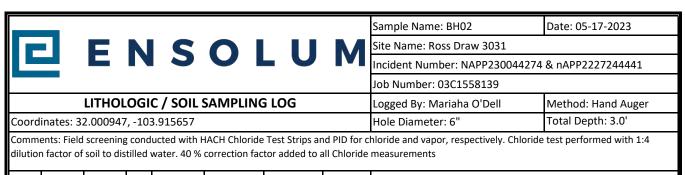






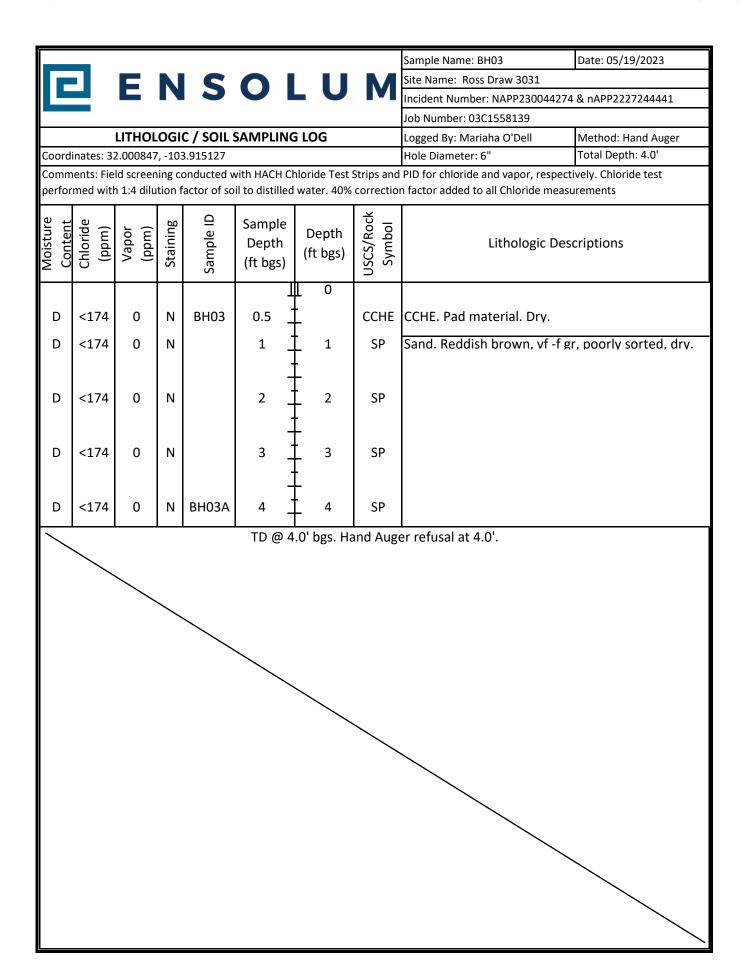


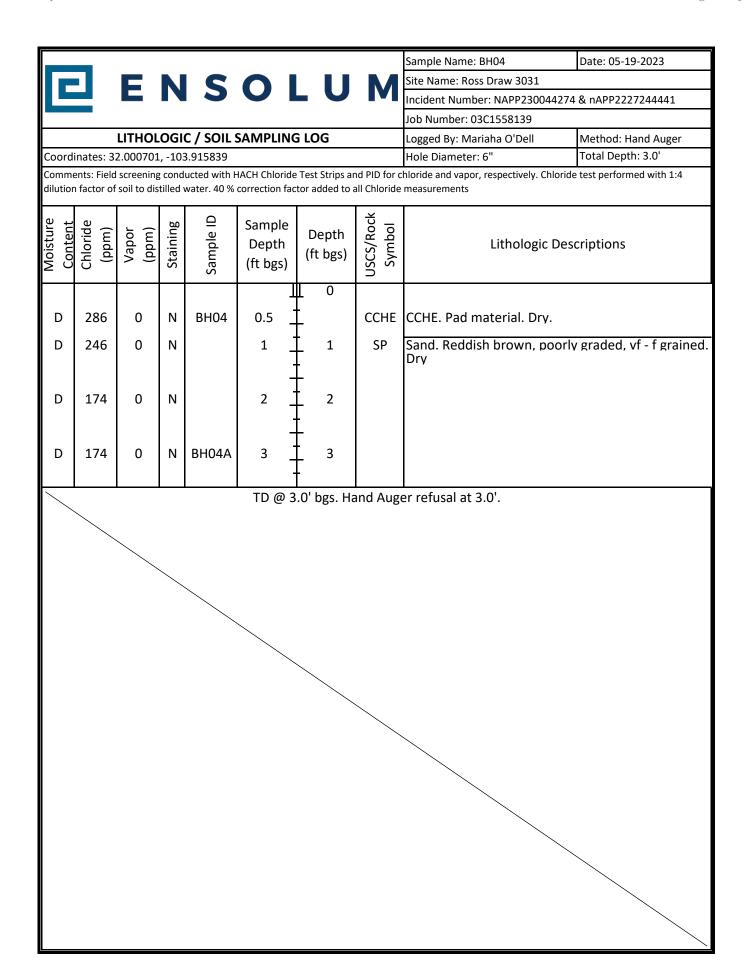




Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						<u> </u>		
D	3,853	0	N	BH02	0.5	- -	CCHE	CCHE. Pad material. Dry.
D	1,831	0.1	N		1 _	1	SW	Sand. Reddish brown, well graded, vf - f grained. Dry
D	700	0	N		2 _	- - 2		
М	241	0	Ν	вно2А	3 _	- _ 3 -		

TD @ 3.0' bgs. Hand Auger refusal at 3.0'.





D

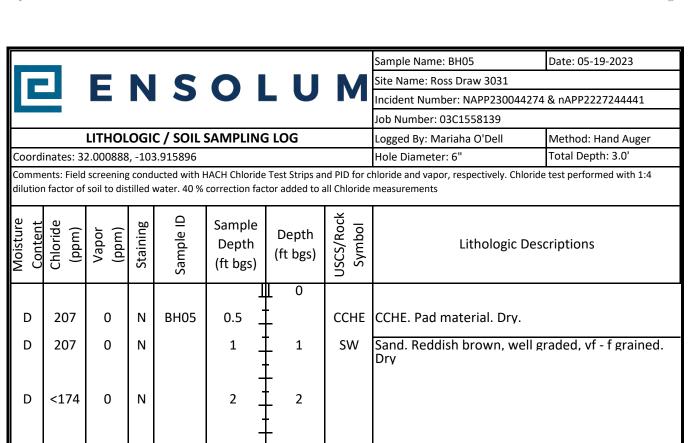
<174

0

Ν

BH05A

3



TD @ 3.0' bgs. Hand Auger refusal at 3.0'.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 12/8/2022 11:53:14 AM

JOB DESCRIPTION

Ross Draw 3031 SDG NUMBER 03E1558139

JOB NUMBER

880-22189-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 12/8/2022 11:53:14 AM

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

10

13

Client: Ensolum
Project/Site: Ross Draw 3031
Laboratory Job ID: 880-22189-1
SDG: 03E1558139

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Definitions/Glossary

Job ID: 880-22189-1 Client: Ensolum Project/Site: Ross Draw 3031

SDG: 03E1558139

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi 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**

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

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)

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

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

Project/Site: Ross Draw 3031

Job ID: 880-22189-1

SDG: 03E1558139

Job ID: 880-22189-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22189-1

Receipt

The samples were received on 12/1/2022 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41160 and analytical batch 880-41157 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH01A (880-22189-2). 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: PH04 (880-22189-5) and PH04A (880-22189-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH05 (880-22189-7). 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: PH01 (880-22189-1), PH01A (880-22189-2) and PH02 (880-22189-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (880-22243-A-22-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40959 and analytical batch 880-41085 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: 880-22189-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH01 Lab Sample ID: 880-22189-1

Date Collected: 11/23/22 10:30 Matrix: Solid Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	U	0.200	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
Toluene	6.43		0.200	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
Ethylbenzene	8.73		0.200	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
m-Xylene & p-Xylene	47.4		0.399	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
o-Xylene	10.8		0.200	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
Xylenes, Total	58.2		0.399	mg/Kg		12/07/22 09:16	12/07/22 15:06	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	127		70 - 130			12/07/22 09:16	12/07/22 15:06	100
1,4-Difluorobenzene (Surr)	108		70 - 130			12/07/22 09:16	12/07/22 15:06	100
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	73.4		0.399	mg/Kg			12/07/22 16:12	
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	4540		50.0	mg/Kg			12/07/22 09:45	
Method: SW846 8015B NM - Dies	cal Panga Orga	nice (DBO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	2410	Qualifier	50.0	 	=	12/06/22 10:12	12/06/22 23:12	
Oasonne Range Organics	2410							
(GRO)-C6-C10			00.0	mg/rtg		,	12/00/22 23.12	
	2130		50.0	mg/Kg		12/06/22 10:12	12/06/22 23:12	
Diesel Range Organics (Over	2130							
Diesel Range Organics (Over C10-C28)	2130 <50.0	U						
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)			50.0	mg/Kg		12/06/22 10:12	12/06/22 23:12	
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0		50.0	mg/Kg		12/06/22 10:12 12/06/22 10:12	12/06/22 23:12 12/06/22 23:12	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0	Qualifier	50.0 50.0 <i>Limits</i>	mg/Kg		12/06/22 10:12 12/06/22 10:12 Prepared	12/06/22 23:12 12/06/22 23:12 Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 158 124	Qualifier S1+	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg		12/06/22 10:12 12/06/22 10:12 Prepared 12/06/22 10:12	12/06/22 23:12 12/06/22 23:12 Analyzed 12/06/22 23:12	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions Analyte	<50.0 **Recovery 158 124 5, lon Chromato	Qualifier S1+	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	D	12/06/22 10:12 12/06/22 10:12 Prepared 12/06/22 10:12	12/06/22 23:12 12/06/22 23:12 Analyzed 12/06/22 23:12	Dil Fac

Client Sample ID: PH01A Lab Sample ID: 880-22189-2 Date Collected: 11/23/22 10:55 **Matrix: Solid**

Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130			12/06/22 11:32	12/06/22 19:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/06/22 11:32	12/06/22 19:23	1

Client Sample Results

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Client Sample ID: PH01A Lab Sample ID: 880-22189-2

Date Collected: 11/23/22 10:55

Date Received: 12/01/22 11:17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/07/22 09:45	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/06/22 23:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/06/22 23:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/06/22 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			12/06/22 10:12	12/06/22 23:33	1
o-Terphenyl	128		70 - 130			12/06/22 10:12	12/06/22 23:33	1

Client Sample ID: PH02

Date Collected: 11/23/22 11:00

Lab Sample ID: 880-22189-3

Matrix: Solid

5.04

mg/Kg

50.6

Date Received: 12/01/22 11:17

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 19:44	
Toluene	< 0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 19:44	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 19:44	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 19:44	
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 19:44	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 19:44	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
	80		70 - 130			12/06/22 11:32	12/06/22 19:44	
4-Bromofluorobenzene (Surr)	00							
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	107		70 - 130		_	12/06/22 11:32	12/06/22 19:44	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	70 - 130	Unit	<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00398	Qualifier U	70 - 130 RL 0.00398	Unit mg/Kg	<u>D</u>	12/06/22 11:32		Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	70 - 130 RL 0.00398	mg/Kg	_ =	12/06/22 11:32 Prepared	Analyzed 12/07/22 10:39	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result	Qualifier U ics (DRO) (C	70 - 130 RL 0.00398 GC) RL	mg/Kg	<u>D</u>	12/06/22 11:32	Analyzed 12/07/22 10:39 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	70 - 130 RL 0.00398 GC) RL 49.8	mg/Kg	_ =	12/06/22 11:32 Prepared	Analyzed 12/07/22 10:39	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Cald Result <0.00398 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	70 - 130 RL 0.00398 GC) RL 49.8	mg/Kg	_ =	12/06/22 11:32 Prepared	Analyzed 12/07/22 10:39 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result <49.8	Qualifier U ics (DRO) ((Qualifier U nics (DRO) Qualifier	70 - 130 RL 0.00398 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/07/22 10:39 Analyzed 12/07/22 09:45	Dil Fac

Eurofins Midland

12/07/22 22:50

Job ID: 880-22189-1

Client: Ensolum SDG: 03E1558139 Project/Site: Ross Draw 3031

Client Sample ID: PH02 Date Collected: 11/23/22 11:00

Lab Sample ID: 880-22189-3 Matrix: Solid

Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/06/22 10:12	12/06/22 23:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			12/06/22 10:12	12/06/22 23:55	1
o-Terphenyl	125		70 - 130			12/06/22 10:12	12/06/22 23:55	1

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - Solι	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		25.2	mg/Kg			12/07/22 22:57	5

Client Sample ID: PH02A Lab Sample ID: 880-22189-4 Date Collected: 11/23/22 11:25 **Matrix: Solid**

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:04	
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:04	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:04	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/06/22 11:32	12/06/22 20:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:04	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/06/22 11:32	12/06/22 20:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	81		70 - 130			12/06/22 11:32	12/06/22 20:04	
1,4-Difluorobenzene (Surr)	104		70 - 130			12/06/22 11:32	12/06/22 20:04	
Method: TAL SOP Total BTEX - Analyte Total BTEX	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 12/07/22 10:39	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00401	Qualifier U	0.00401 GC)	mg/Kg			12/07/22 10:39	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result < 0.00401 el Range Organ Result	Qualifier U ics (DRO) (Qualifier	0.00401 GC)	mg/Kg	<u>D</u>	Prepared Prepared	12/07/22 10:39 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Result <0.00401 el Range Organ Result <49.9 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO)	0.00401 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	12/07/22 10:39 Analyzed 12/07/22 09:45	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <0.00401 el Range Organ Result <49.9 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00401 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	12/07/22 10:39 Analyzed 12/07/22 09:45 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <0.00401 el Range Organ Result <49.9 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00401 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	12/07/22 10:39 Analyzed 12/07/22 09:45	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <0.00401 el Range Organ Result <49.9 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	12/07/22 10:39 Analyzed 12/07/22 09:45 Analyzed	Dil Fa
Analyte	Result <0.00401 el Range Organ Result <49.9 sel Range Orga Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL 49.9	unit mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 09:45	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Result El Range Organ Result <49.9 Sel Range Orga Result <49.9 <49.9	Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U U U	0.00401 GC) RL 49.9 (GC) RL 49.9 49.9	unit mg/Kg Unit mg/Kg unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 12/06/22 10:12 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:17	Dil Fa

Eurofins Midland

12/07/22 00:17

Analyzed

12/07/22 23:03

12/06/22 10:12

Prepared

70 - 130

RL

5.05

Unit

mg/Kg

125

219

Result Qualifier

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Dil Fac

o-Terphenyl

Analyte

Chloride

Cheff Sample Results

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Client Sample ID: PH04 Lab Sample ID: 880-22189-5

Date Collected: 11/23/22 11:55

Date Received: 12/01/22 11:17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/06/22 11:32	12/06/22 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130			12/06/22 11:32	12/06/22 20:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/06/22 11:32	12/06/22 20:25	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	П	0.00403	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					·
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (mg/kg Unit	D	Prepared		
- -	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared	Analyzed 12/07/22 09:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <50.0	ics (DRO) (Gualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Gualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC) RL 50.0	Unit mg/Kg		<u> </u>	Analyzed 12/07/22 09:45	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 <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39	Dil Fac 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	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL	Unit mg/Kg		Prepared	Analyzed 12/07/22 09:45 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)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39	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 <50.0 sel Range Orga Result <50.0	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39	Dil Fac 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 <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39	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 <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <80.0 %Recovery	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12 12/06/22 10:12 Prepared	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39 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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12 12/06/22 10:12 Prepared 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39 Analyzed 12/07/22 00:39	Dil Fac Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/06/22 10:12 12/06/22 10:12 12/06/22 10:12 Prepared 12/06/22 10:12	Analyzed 12/07/22 09:45 Analyzed 12/07/22 00:39 12/07/22 00:39 Analyzed 12/07/22 00:39	Dil Fac 1 Dil Fac 1 1 Dil Fac 1

Client Sample ID: PH04A Lab Sample ID: 880-22189-6

Date Collected: 11/23/22 12:20 Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/22 11:32	12/06/22 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130			12/06/22 11:32	12/06/22 20:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/06/22 11:32	12/06/22 20:45	1

Eurofins Midland

Matrix: Solid

2

3

4

6

8

10

12

Client Sample Results

Client: Ensolum
Project/Site: Ross Draw 3031

Job ID: 880-22189-1 SDG: 03E1558139

Client Sample ID: PH04A

Lab Sample ID: 880-22189-6

Matrix: Solid

Date Collected: 11/23/22 12:20 Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/07/22 09:45	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 01:00	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 01:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			12/06/22 10:12	12/07/22 01:00	1
o-Terphenyl	112		70 - 130			12/06/22 10:12	12/07/22 01:00	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	graphy - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		5.03	mg/Kg			12/07/22 23:30	

Client Sample ID: PH05

Date Collected: 11/23/22 12:25

Lab Sample ID: 880-22189-7

Matrix: Solid

Date Collected: 11/23/22 12:25
Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
Toluene	< 0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			12/06/22 11:32	12/06/22 21:05	1
4. 4. Difference bearing (Occurs)	98		70 - 130			12/06/22 11:32	12/06/22 21:05	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	- Total BTEX Cald							•
		culation	70 - 700			12/00/22 11.52	12/00/22 21:00	•
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00398	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00398 essel Range Organ	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00398 essel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 12/07/22 10:39	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	mg/Kg		Prepared	Analyzed 12/07/22 10:39 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cald Result <- 0.00398 esel Range Organ Result <- 50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	mg/Kg		Prepared	Analyzed 12/07/22 10:39 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Cald Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/07/22 10:39 Analyzed 12/07/22 09:45	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	esel Range Organ Result - 50.00 Result - 60.00 Result - 70.00 Result - 70.00 Result - 70.00 Result Result Result Result Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 12/07/22 10:39 Analyzed 12/07/22 09:45 Analyzed	Dil Fac

Eurofins Midland

Released to Imaging: 11/29/2023 3:07:47 PM

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12

1 /

Job ID: 880-22189-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH05 Lab Sample ID: 880-22189-7 Date Collected: 11/23/22 12:25

Matrix: Solid

Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			12/06/22 10:12	12/07/22 01:22	1
o-Terphenyl	130		70 - 130			12/06/22 10:12	12/07/22 01:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	410	25.1	mg/Kg			12/07/22 23:37	5	

Client Sample ID: PH05A Lab Sample ID: 880-22189-8 Date Collected: 11/23/22 12:50 Matrix: Solid

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			12/06/22 11:32	12/06/22 21:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/06/22 11:32	12/06/22 21:26	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/07/22 10:39	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/07/22 09:45	
- Method: SW846 8015B NM - Dies	el 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		12/06/22 10:12	12/07/22 02:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 02:06	,
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 10:12	12/07/22 02:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	123		70 - 130			12/06/22 10:12	12/07/22 02:06	-
o-Terphenyl	115		70 - 130			12/06/22 10:12	12/07/22 02:06	

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Analyzed

12/07/22 23:43

RL

5.00

Unit

mg/Kg

Prepared

Result Qualifier

21.0

Dil Fac

Analyte

Chloride

Job ID: 880-22189-1

Client: Ensolum SDG: 03E1558139 Project/Site: Ross Draw 3031

Client Sample ID: PH06 Lab Sample ID: 880-22189-9 Date Collected: 11/23/22 12:55

Matrix: Solid

Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/06/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/06/22 11:32	12/06/22 21:46	
1,4-Difluorobenzene (Surr)	108		70 - 130			12/06/22 11:32	12/06/22 21:46	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/07/22 09:45	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			12/06/22 10:12	12/07/22 02:28	1
o-Terphenyl	117		70 - 130			12/06/22 10:12	12/07/22 02:28	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble					
Analyte	•	Qualifier						

Client Sample ID: PH06A Lab Sample ID: 880-22189-10 Date Collected: 11/23/22 13:20 **Matrix: Solid**

41.4

4.96

mg/Kg

Date Received: 12/01/22 11:17

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/22 11:32	12/06/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/06/22 11:32	12/06/22 22:07	1
1,4-Difluorobenzene (Surr)	107		70 - 130			12/06/22 11:32	12/06/22 22:07	1

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12/07/22 23:50

Client: Ensolum

38.2

Job ID: 880-22189-1

SDG: 03E1558139

Client Sample ID: PH06A

Project/Site: Ross Draw 3031

Date Collected: 11/23/22 13:20 Date Received: 12/01/22 11:17

Lab Sample ID: 880-22189-10

12/07/22 23:57

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/07/22 10:39	1
- Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/07/22 09:45	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:49	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:49	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	-	70 - 130			12/06/22 10:12	12/07/22 02:49	1
	116		70 - 130			12/06/22 10:12	12/07/22 02:49	1
o-Terphenyl	7.70							
o-Terphenyl Method: MCAWW 300.0 - Anions		aranhy S	alubla					

4.96 **Client Sample ID: PH07** Lab Sample ID: 880-22189-11

mg/Kg

Date Collected: 11/23/22 13:25

Chloride

Date Received: 12/01/22 11:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/22 11:32	12/07/22 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			12/06/22 11:32	12/07/22 00:17	1
						10/00/00 11 00	10/07/00 00 17	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 R L	Unit	D	12/06/22 11:32 Prepared	12/07/22 00:17 Analyzed	
		culation	70 - 130			12/06/22 11:32	12/07/22 00:17	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00402	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00402 essel Range Organ	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00402 essel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402	mg/Kg		Prepared	Analyzed 12/07/22 10:39	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte	- Total BTEX Cald Result <0.00402 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 12/07/22 10:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 12/07/22 10:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - E	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/07/22 10:39 Analyzed 12/07/22 09:45	Dil Fac

Job ID: 880-22189-1

SDG: 03E1558139

Project/Site: Ross Draw 3031 **Client Sample ID: PH07**

Date Received: 12/01/22 11:17

Client: Ensolum

Lab Sample ID: 880-22189-11 Date Collected: 11/23/22 13:25

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 10:12	12/07/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			12/06/22 10:12	12/07/22 03:11	1
o-Terphenyl	122		70 - 130			12/06/22 10:12	12/07/22 03:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 24.8 12/08/22 07:59 253 F1 5 Chloride mg/Kg

Client Sample ID: PH07A Lab Sample ID: 880-22189-12

Date Collected: 11/23/22 13:50 **Matrix: Solid** Date Received: 12/01/22 11:17

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 12/06/22 11:32 12/07/22 00:37 mg/Kg Toluene <0.00200 U 0.00200 12/06/22 11:32 12/07/22 00:37 mg/Kg Ethylbenzene <0.00200 U 0.00200 12/06/22 11:32 12/07/22 00:37 mg/Kg m-Xylene & p-Xylene 12/06/22 11:32 12/07/22 00:37 <0.00399 U 0.00399 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 12/06/22 11:32 12/07/22 00:37 <0.00399 U Xylenes, Total 0.00399 mg/Kg 12/06/22 11:32 12/07/22 00:37 %Recovery Limits Dil Fac Surrogate Qualifier Prepared Analyzed 75 70 - 130 12/06/22 11:32 4-Bromofluorobenzene (Surr) 12/07/22 00:37 1,4-Difluorobenzene (Surr) 101 70 - 130 12/06/22 11:32 12/07/22 00:37

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00399 U 0.00399 mg/Kg 12/07/22 10:39

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Dil Fac RL Unit D Prepared Analyzed Total TPH <50.0 Ū 50.0 12/07/22 09:45 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 12/06/22 10:12 12/07/22 03:33 mg/Kg (GRO)-C6-C10 50.0 12/06/22 10:12 12/07/22 03:33 Diesel Range Organics (Over <50.0 U mg/Kg OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/06/22 10:12 12/07/22 03:33 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 114 70 - 130 12/06/22 10:12 12/07/22 03:33 110 70 - 130 12/06/22 10:12 o-Terphenyl 12/07/22 03:33

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Unit Dil Fac RL Prepared Analyzed Chloride 5.05 mg/Kg 12/08/22 08:19 63.4

Surrogate Summary

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

b Sample ID Client Sample ID (70-130) (70-130) 0-22189-1 PH01 127 108 0-22189-2 PH01A 61 S1- 105 0-22189-2 MS PH01A 79 100 0-22189-2 MSD PH01A 73 102 0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 85 880-40641/1-A Lab Control Sample 97 </th <th></th> <th>ogate Recovery (A</th>		ogate Recovery (A
0-22189-1 PH01 127 108 0-22189-2 PH01A 61 S1- 105 0-22189-2 MS PH01A 79 100 0-22189-2 MSD PH01A 73 102 0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	BFB1 DFBZ1	
0-22189-2 PH01A 61 S1- 105 0-22189-2 MS PH01A 79 100 0-22189-2 MSD PH01A 73 102 0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike Duplicate 102 119 0-88 880-40641/1-A Lab Control Sample 97 111		
0-22189-2 MS PH01A 79 100 0-22189-2 MSD PH01A 73 102 0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike Duplicate 102 119 0-88 880-40641/1-A Lab Control Sample 97 111	PH01 127 108	
0-22189-2 MSD PH01A 73 102 0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH01A 61 S1- 105	
0-22189-3 PH02 80 107 0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike Duplicate 102 119 0-88 880-40641/1-A Lab Control Sample 97 111	MS PH01A 79 100	
0-22189-4 PH02A 81 104 0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	MSD PH01A 73 102	
0-22189-5 PH04 62 S1- 105 0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH02 80 107	
0-22189-6 PH04A 66 S1- 103 0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH02A 81 104	
0-22189-7 PH05 83 98 0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH04 62 S1- 105	
0-22189-8 PH05A 90 99 0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH04A 66 S1- 103	
0-22189-9 PH06 87 108 0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH05 83 98	
0-22189-10 PH06A 87 107 0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH05A 90 99	
0-22189-11 PH07 71 98 0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH06 87 108	
0-22189-12 PH07A 75 101 0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH06A 87 107	
0-22352-A-1-D MS Matrix Spike 102 114 0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	PH07 71 98	
0-22352-A-1-E MSD Matrix Spike Duplicate 102 119 SS 880-40641/1-A Lab Control Sample 97 111	2 PH07A 75 101	
SS 880-40641/1-A Lab Control Sample 97 111	-1-D MS Matrix Spike 102 114	
1	-1-E MSD Matrix Spike Duplicate 102 119	
·	·	
	·	
SD 880-40641/2-A Lab Control Sample Dup 96 116		
SSD 880-41160/2-A Lab Control Sample Dup 80 99		
3 880-40641/5-A Method Blank 82 100	·	
B 880-41160/5-A Method Blank 67 S1- 103		

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-22189-1	PH01	158 S1+	124	
880-22189-2	PH01A	136 S1+	128	
880-22189-3	PH02	131 S1+	125	
880-22189-4	PH02A	127	125	
880-22189-5	PH04	130	124	
880-22189-6	PH04A	118	112	
880-22189-7	PH05	135 S1+	130	
880-22189-8	PH05A	123	115	
880-22189-9	PH06	120	117	
880-22189-10	PH06A	120	116	
880-22189-11	PH07	124	122	
880-22189-12	PH07A	114	110	
880-22243-A-22-C MS	Matrix Spike	117	97	
880-22243-A-22-D MSD	Matrix Spike Duplicate	118	98	
LCS 880-41142/2-A	Lab Control Sample	128	114	
LCSD 880-41142/3-A	Lab Control Sample Dup	109	113	
MB 880-41142/1-A	Method Blank	109	110	

Surrogate Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-22189-1

SDG: 03E1558139

Client: Ensolum Job ID: 880-22189-1 SDG: 03E1558139 Project/Site: Ross Draw 3031

Method: 8021B - Volatile Organic Compounds (GC)

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

Matrix: Solid Analysis Batch: 41222 Client Sample ID: Method Blank

Prep Type: Total/NA

ch: 40641

						Prep Batcl
MB	MB					
14	Ovelifier	DI.	l lmi4	_	Daniel and d	A l

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:16	12/07/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:16	12/07/22 11:40	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	11/29/22 09:16	12/07/22 11:40	1
1,4-Difluorobenzene (Surr)	100	70 - 130	11/29/22 09:16	12/07/22 11:40	1

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

Matrix: Solid

Analysis Batch: 41222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40641

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

LCS LCS

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

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

Matrix: Solid

Analysis Batch: 41222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40641

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

LCSD LCSD

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

Lab Sample ID: MB 880-41160/5-A

Matrix: Solid

Analysis Batch: 41157

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41160

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	12/06/22 11:32	12/06/22 18:55	1
Toluene	< 0.00200	U	0.00200	ma/Ka		12/06/22 11:32	12/06/22 18:55	1

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Client: Ensolum Job ID: 880-22189-1 SDG: 03E1558139 Project/Site: Ross Draw 3031

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

Lab Sample ID: MB 880-41160/5-A

Matrix: Solid

Analysis Batch: 41157

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41160

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/22 11:32	12/06/22 18:55	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	12/06/22 11:32	12/06/22 18:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/06/22 11:32	12/06/22 18:55	1

Lab Sample ID: LCS 880-41160/1-A

Matrix: Solid

Analysis Batch: 41157

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

Prep Batch: 41160

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09296		mg/Kg		93	70 - 130	
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.09287		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1622		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.07929		mg/Kg		79	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-41160/2-A

Matrix: Solid

Analysis Batch: 41157

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41160

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08382		mg/Kg		84	70 - 130	10	35
Toluene	0.100	0.09298		mg/Kg		93	70 - 130	7	35
Ethylbenzene	0.100	0.09005		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130	2	35
o-Xylene	0.100	0.07789		mg/Kg		78	70 - 130	2	35

LCSD LCSD

<0.00402 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	80	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 880-22189-2 MS

Matrix: Solid

m-Xylene & p-Xylene

Analysis Batch: 41157

Client Sample ID: PH01A

Prep Type: Total/NA

Prep Batch: 41160

l		Sample	Sample	Spike	MS	MS				%Rec	
l	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Benzene	<0.00201	U	0.0996	0.08443		mg/Kg		84	70 - 130	
l	Toluene	<0.00201	U	0.0996	0.09336		mg/Kg		94	70 - 130	
l	Ethylbenzene	<0.00201	U	0.0996	0.08859		mg/Kg		89	70 - 130	

0.1566

mg/Kg

0.199

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70 - 130

Released to Imaging: 11/29/2023 3:07:47 PM

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

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

Lab Sample ID: 880-22189-2 MS Matrix: Solid

Lab Sample ID: 880-22189-2 MSD

Analysis Batch: 41157

9-2 MS Client Sample ID: PH01A
Prep Type: Total/NA

Prep Batch: 41160

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00201 U 0.0996 0.07696 76 70 - 130 o-Xylene mg/Kg

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 79
 70 - 130

 1,4-Difluorobenzene (Surr)
 100
 70 - 130

Client Sample ID: PH01A

Prep Type: Total/NA

Matrix: Solid
Analysis Batch: 41157

Prep Batch: 41160

Sample Sample MSD MSD Spike Limit Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Benzene <0.00201 U 0.0998 0.07850 mg/Kg 78 70 - 130 35 Toluene < 0.00201 U 0.0998 0.09068 mg/Kg 91 70 - 130 35 3 Ethylbenzene <0.00201 U 0.0998 0.08847 mg/Kg 89 70 - 130 0 35 77 m-Xylene & p-Xylene <0.00402 U 0.200 0.1560 mg/Kg 70 - 130 35 <0.00201 0.0998 0.07387 73 70 - 130 35 o-Xylene U mg/Kg

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 73
 70 - 130

 1,4-Difluorobenzene (Surr)
 102
 70 - 130

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

Lab Sample ID: MB 880-41142/1-A

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Method Blank

Prep Batch: 41142

Prep Batch: 41142

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 50.0 12/06/22 20:18 Gasoline Range Organics <50.0 U mg/Kg 12/06/22 10:12 (GRO)-C6-C10 50.0 Diesel Range Organics (Over <50.0 U mg/Kg 12/06/22 10:12 12/06/22 20:18 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/06/22 10:12 12/06/22 20:18

MB MB

Qualifier Dil Fac Surrogate %Recovery I imits Prepared Analyzed 1-Chlorooctane 109 70 - 130 12/06/22 10:12 12/06/22 20:18 o-Terphenyl 110 70 - 130 12/06/22 10:12 12/06/22 20:18

Lab Sample ID: LCS 880-41142/2-A

Matrix: Solid

Analysis Batch: 41104

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

Prep Batch: 41142

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 867.2 Gasoline Range Organics 1000 mg/Kg 87 70 130 (GRO)-C6-C10 1000 841.6 84 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

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Job ID: 880-22189-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03E1558139

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

Lab Sample ID: LCS 880-41142/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 41104 Prep Batch: 41142

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	128	70 - 130
o-Terphenyl	114	70 - 130

Lab Sample ID: LCSD 880-41142/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 41104 Prep Batch: 41142

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 998 7 100 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 841.9 mg/Kg 84 70 - 1300 20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40959/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 41085

C10-C28)

мв мв Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 12/07/22 22:10

Lab Sample ID: LCS 880-40959/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41085

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 267.0 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-40959/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41085

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 267.4 107 90 - 110 20 mg/Kg

Lab Sample ID: 880-22189-1 MS **Client Sample ID: PH01**

Matrix: Solid Prep Type: Soluble Analysis Batch: 41085

Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 250 142 407.5 mg/Kg 106 90 - 110

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22189-1 MSD

Matrix: Solid

Client Sample ID: PH01

Prep Type: Soluble

Analysis Batch: 41085

١		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	142		250	408.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-22189-11 MS

Matrix: Solid

Client Sample ID: PH07

Prep Type: Soluble

Analysis Batch: 41085

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	253	F1	1240	1623	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-22189-11 MSD

Matrix: Solid

Client Sample ID: PH07

Prep Type: Soluble

Analysis Batch: 41085

Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Added Limit Analyte Result Qualifier Unit Limits **RPD** Chloride 253 F1 1240 1612 110 90 - 110 mg/Kg

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Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 880-22189-1 SDG: 03E1558139

GC VOA

Prep Batch: 40641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	5035	
MB 880-40641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 41157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-2	PH01A	Total/NA	Solid	8021B	41160
880-22189-3	PH02	Total/NA	Solid	8021B	41160
880-22189-4	PH02A	Total/NA	Solid	8021B	41160
880-22189-5	PH04	Total/NA	Solid	8021B	41160
880-22189-6	PH04A	Total/NA	Solid	8021B	41160
880-22189-7	PH05	Total/NA	Solid	8021B	41160
880-22189-8	PH05A	Total/NA	Solid	8021B	41160
880-22189-9	PH06	Total/NA	Solid	8021B	41160
880-22189-10	PH06A	Total/NA	Solid	8021B	41160
880-22189-11	PH07	Total/NA	Solid	8021B	41160
880-22189-12	PH07A	Total/NA	Solid	8021B	41160
MB 880-41160/5-A	Method Blank	Total/NA	Solid	8021B	41160
LCS 880-41160/1-A	Lab Control Sample	Total/NA	Solid	8021B	41160
LCSD 880-41160/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41160
880-22189-2 MS	PH01A	Total/NA	Solid	8021B	41160
880-22189-2 MSD	PH01A	Total/NA	Solid	8021B	41160

Prep Batch: 41160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-2	PH01A	Total/NA	Solid	5035	
880-22189-3	PH02	Total/NA	Solid	5035	
880-22189-4	PH02A	Total/NA	Solid	5035	
880-22189-5	PH04	Total/NA	Solid	5035	
880-22189-6	PH04A	Total/NA	Solid	5035	
880-22189-7	PH05	Total/NA	Solid	5035	
880-22189-8	PH05A	Total/NA	Solid	5035	
880-22189-9	PH06	Total/NA	Solid	5035	
880-22189-10	PH06A	Total/NA	Solid	5035	
880-22189-11	PH07	Total/NA	Solid	5035	
880-22189-12	PH07A	Total/NA	Solid	5035	
MB 880-41160/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41160/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41160/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22189-2 MS	PH01A	Total/NA	Solid	5035	
880-22189-2 MSD	PH01A	Total/NA	Solid	5035	

Analysis Batch: 41222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	8021B	40641
MB 880-40641/5-A	Method Blank	Total/NA	Solid	8021B	40641
LCS 880-40641/1-A	Lab Control Sample	Total/NA	Solid	8021B	40641
LCSD 880-40641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40641

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

GC VOA

Analysis Batch: 41260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	Total BTEX	
880-22189-2	PH01A	Total/NA	Solid	Total BTEX	
880-22189-3	PH02	Total/NA	Solid	Total BTEX	
880-22189-4	PH02A	Total/NA	Solid	Total BTEX	
880-22189-5	PH04	Total/NA	Solid	Total BTEX	
880-22189-6	PH04A	Total/NA	Solid	Total BTEX	
880-22189-7	PH05	Total/NA	Solid	Total BTEX	
880-22189-8	PH05A	Total/NA	Solid	Total BTEX	
880-22189-9	PH06	Total/NA	Solid	Total BTEX	
880-22189-10	PH06A	Total/NA	Solid	Total BTEX	
880-22189-11	PH07	Total/NA	Solid	Total BTEX	
880-22189-12	PH07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 41104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	8015B NM	41142
880-22189-2	PH01A	Total/NA	Solid	8015B NM	41142
880-22189-3	PH02	Total/NA	Solid	8015B NM	41142
880-22189-4	PH02A	Total/NA	Solid	8015B NM	41142
880-22189-5	PH04	Total/NA	Solid	8015B NM	41142
880-22189-6	PH04A	Total/NA	Solid	8015B NM	41142
880-22189-7	PH05	Total/NA	Solid	8015B NM	41142
880-22189-8	PH05A	Total/NA	Solid	8015B NM	41142
880-22189-9	PH06	Total/NA	Solid	8015B NM	41142
880-22189-10	PH06A	Total/NA	Solid	8015B NM	41142
880-22189-11	PH07	Total/NA	Solid	8015B NM	41142
880-22189-12	PH07A	Total/NA	Solid	8015B NM	41142
MB 880-41142/1-A	Method Blank	Total/NA	Solid	8015B NM	41142
LCS 880-41142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41142
LCSD 880-41142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41142

Prep Batch: 41142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	8015NM Prep	
880-22189-2	PH01A	Total/NA	Solid	8015NM Prep	
880-22189-3	PH02	Total/NA	Solid	8015NM Prep	
880-22189-4	PH02A	Total/NA	Solid	8015NM Prep	
880-22189-5	PH04	Total/NA	Solid	8015NM Prep	
880-22189-6	PH04A	Total/NA	Solid	8015NM Prep	
880-22189-7	PH05	Total/NA	Solid	8015NM Prep	
880-22189-8	PH05A	Total/NA	Solid	8015NM Prep	
880-22189-9	PH06	Total/NA	Solid	8015NM Prep	
880-22189-10	PH06A	Total/NA	Solid	8015NM Prep	
880-22189-11	PH07	Total/NA	Solid	8015NM Prep	
880-22189-12	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-41142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 880-22189-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

GC Semi VOA

Analysis Batch: 41233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Total/NA	Solid	8015 NM	
880-22189-2	PH01A	Total/NA	Solid	8015 NM	
880-22189-3	PH02	Total/NA	Solid	8015 NM	
880-22189-4	PH02A	Total/NA	Solid	8015 NM	
880-22189-5	PH04	Total/NA	Solid	8015 NM	
880-22189-6	PH04A	Total/NA	Solid	8015 NM	
880-22189-7	PH05	Total/NA	Solid	8015 NM	
880-22189-8	PH05A	Total/NA	Solid	8015 NM	
880-22189-9	PH06	Total/NA	Solid	8015 NM	
880-22189-10	PH06A	Total/NA	Solid	8015 NM	
880-22189-11	PH07	Total/NA	Solid	8015 NM	
880-22189-12	PH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Soluble	Solid	DI Leach	
880-22189-2	PH01A	Soluble	Solid	DI Leach	
880-22189-3	PH02	Soluble	Solid	DI Leach	
880-22189-4	PH02A	Soluble	Solid	DI Leach	
880-22189-5	PH04	Soluble	Solid	DI Leach	
880-22189-6	PH04A	Soluble	Solid	DI Leach	
880-22189-7	PH05	Soluble	Solid	DI Leach	
880-22189-8	PH05A	Soluble	Solid	DI Leach	
880-22189-9	PH06	Soluble	Solid	DI Leach	
880-22189-10	PH06A	Soluble	Solid	DI Leach	
880-22189-11	PH07	Soluble	Solid	DI Leach	
880-22189-12	PH07A	Soluble	Solid	DI Leach	
MB 880-40959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22189-1 MS	PH01	Soluble	Solid	DI Leach	
880-22189-1 MSD	PH01	Soluble	Solid	DI Leach	
880-22189-11 MS	PH07	Soluble	Solid	DI Leach	
880-22189-11 MSD	PH07	Soluble	Solid	DI Leach	

Analysis Batch: 41085

Released to Imaging: 11/29/2023 3:07:47 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22189-1	PH01	Soluble	Solid	300.0	40959
880-22189-2	PH01A	Soluble	Solid	300.0	40959
880-22189-3	PH02	Soluble	Solid	300.0	40959
880-22189-4	PH02A	Soluble	Solid	300.0	40959
880-22189-5	PH04	Soluble	Solid	300.0	40959
880-22189-6	PH04A	Soluble	Solid	300.0	40959
880-22189-7	PH05	Soluble	Solid	300.0	40959
880-22189-8	PH05A	Soluble	Solid	300.0	40959
880-22189-9	PH06	Soluble	Solid	300.0	40959
880-22189-10	PH06A	Soluble	Solid	300.0	40959
880-22189-11	PH07	Soluble	Solid	300.0	40959
880-22189-12	PH07A	Soluble	Solid	300.0	40959

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

HPLC/IC (Continued)

Analysis Batch: 41085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40959/1-A	Method Blank	Soluble	Solid	300.0	40959
LCS 880-40959/2-A	Lab Control Sample	Soluble	Solid	300.0	40959
LCSD 880-40959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40959
880-22189-1 MS	PH01	Soluble	Solid	300.0	40959
880-22189-1 MSD	PH01	Soluble	Solid	300.0	40959
880-22189-11 MS	PH07	Soluble	Solid	300.0	40959
880-22189-11 MSD	PH07	Soluble	Solid	300.0	40959

Client: Ensolum

Date Collected: 11/23/22 10:30 Date Received: 12/01/22 11:17

Lab Sample ID: 880-22189-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			40641	MNR	EET MID	12/07/22 09:16
Total/NA	Analysis	8021B		100	41222	MNR	EET MID	12/07/22 15:06
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 16:12
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/06/22 23:12
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 22:30

Client Sample ID: PH01A Lab Sample ID: 880-22189-2

Matrix: Solid

Prepared

or Analyzed

12/06/22 11:32

12/06/22 19:23

12/07/22 10:39

12/07/22 09:45

12/06/22 10:12

12/06/22 23:33 12/03/22 13:50

12/07/22 22:50

EET MID

EET MID

Date Collected: 11/23/22 10:55 Date Received: 12/01/22 11:17

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

Batch Batch Dilution Batch Prep Type Туре Method Run Factor **Number Analyst** Lab Prep 5035 Total/NA 41160 MNR EET MID Total/NA 8021B 41157 MNR Analysis EET MID Total/NA Total BTEX Analysis 1 41260 SM **EET MID** Total/NA Analysis 8015 NM 41233 SM **EET MID** Total/NA 8015NM Prep EET MID Prep 41142 DM Total/NA Analysis 8015B NM 41104 SM **EET MID**

Client Sample ID: PH02 Lab Sample ID: 880-22189-3 Date Collected: 11/23/22 11:00

1

Matrix: Solid Date Received: 12/01/22 11:17

40959 SMC

41085 CH

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 19:44
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/06/22 23:55
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		5	41085	CH	EET MID	12/07/22 22:57

Client Sample ID: PH02A Lab Sample ID: 880-22189-4 Date Collected: 11/23/22 11:25 **Matrix: Solid**

Date Received: 12/01/22 11:17

Released to Imaging: 11/29/2023 3:07:47 PM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 20:04
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39

Job ID: 880-22189-1

SDG: 03E1558139

Client: Ensolum

Project/Site: Ross Draw 3031

Client Sample ID: PH02A Lab Sample ID: 880-22189-4

Date Collected: 11/23/22 11:25

Date Received: 12/01/22 11:17

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 00:17
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:03

Client Sample ID: PH04 Lab Sample ID: 880-22189-5

Date Collected: 11/23/22 11:55 Matrix: Solid

Date Received: 12/01/22 11:17

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 20:25
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 00:39
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:10

Client Sample ID: PH04A Lab Sample ID: 880-22189-6

Date Collected: 11/23/22 12:20

Date Received: 12/01/22 11:17

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 20:45
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 01:00
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:30

Client Sample ID: PH05 Lab Sample ID: 880-22189-7

Date Collected: 11/23/22 12:25 Date Received: 12/01/22 11:17

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 21:05
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 01:22

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Matrix: Solid

Client: Ensolum Job ID: 880-22189-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH05

Date Collected: 11/23/22 12:25 Date Received: 12/01/22 11:17

Lab Sample ID: 880-22189-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		5	41085	CH	EET MID	12/07/22 23:37

Client Sample ID: PH05A Lab Sample ID: 880-22189-8

Date Collected: 11/23/22 12:50 **Matrix: Solid**

Date Received: 12/01/22 11:17

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 21:26
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 02:06
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:43

Client Sample ID: PH06 Lab Sample ID: 880-22189-9

Date Collected: 11/23/22 12:55

Date Received: 12/01/22 11:17

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 21:46
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 02:28
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:50

Client Sample ID: PH06A Lab Sample ID: 880-22189-10

Date Collected: 11/23/22 13:20 Date Received: 12/01/22 11:17

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/06/22 22:07
Total/NA	Analysis	Total BTEX		1	41260	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41233	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41142	DM	EET MID	12/06/22 10:12
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/07/22 02:49
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/07/22 23:57

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Matrix: Solid

Lab Chronicle

Job ID: 880-22189-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH07

Date Received: 12/01/22 11:17

Lab Sample ID: 880-22189-11 Date Collected: 11/23/22 13:25

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 5035 12/06/22 11:32 Total/NA Prep 41160 MNR EET MID Total/NA Analysis 8021B 1 41157 MNR EET MID 12/07/22 00:17 Total/NA Analysis Total BTEX 41260 SM **EET MID** 12/07/22 10:39 8015 NM 12/07/22 09:45 Total/NA Analysis 1 41233 SM **EET MID** 12/06/22 10:12 Total/NA 8015NM Prep 41142 DM **EET MID** Prep Total/NA Analysis 8015B NM 41104 SM **EET MID** 12/07/22 03:11 40959 SMC 12/03/22 13:50 Soluble DI Leach **FFT MID** Leach Soluble Analysis 300.0 5 41085 CH **EET MID** 12/08/22 07:59

Client Sample ID: PH07A Lab Sample ID: 880-22189-12

Date Collected: 11/23/22 13:50 **Matrix: Solid** Date Received: 12/01/22 11:17

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run **Number Analyst** Lab or Analyzed Factor Prep 5035 12/06/22 11:32 Total/NA 41160 MNR EET MID 8021B MNR 12/07/22 00:37 Total/NA Analysis 1 41157 **EET MID** Total/NA Total BTEX 12/07/22 10:39 Analysis 1 41260 SM **EET MID** Total/NA Analysis 8015 NM 41233 SM **EET MID** 12/07/22 09:45 Total/NA 8015NM Prep 41142 DM **EET MID** 12/06/22 10:12 Prep Total/NA Analysis 8015B NM 41104 SM **EET MID** 12/07/22 03:33 12/03/22 13:50 Soluble DI Leach 40959 SMC **EET MID** Leach Soluble Analysis 300.0 41085 CH **EET MID** 12/08/22 08:19

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-22189-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	• •	ut the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for
0 ,	or corumounorr.			
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 880-22189-1

SDG: 03E1558139

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

 Client: Ensolum
 Job ID: 880-22189-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22189-1	PH01	Solid	11/23/22 10:30	12/01/22 11:17
880-22189-2	PH01A	Solid	11/23/22 10:55	12/01/22 11:17
880-22189-3	PH02	Solid	11/23/22 11:00	12/01/22 11:17
380-22189-4	PH02A	Solid	11/23/22 11:25	12/01/22 11:17
380-22189-5	PH04	Solid	11/23/22 11:55	12/01/22 11:17
380-22189-6	PH04A	Solid	11/23/22 12:20	12/01/22 11:17
30-22189-7	PH05	Solid	11/23/22 12:25	12/01/22 11:17
30-22189-8	PH05A	Solid	11/23/22 12:50	12/01/22 11:17
80-22189-9	PH06	Solid	11/23/22 12:55	12/01/22 11:17
80-22189-10	PH06A	Solid	11/23/22 13:20	12/01/22 11:17
80-22189-11	PH07	Solid	11/23/22 13:25	12/01/22 11:17
80-22189-12	PH07A	Solid	11/23/22 13:50	12/01/22 11:17

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300

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and discourse and the first feet of the contract of the contra	And the second s					www.xenco.com Pa	Page / of 2	
Project Manager	Kaleı Jennings		Bill to (if different)		Garret Green	Work Order Comments	nents	
Company Name	Ensolum		Company Name	×	XTO Energy	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	ls	
Address	3122 National Parks Hwy		Address.	31	3104 E Green St	State of Project:		
City, State ZIP	Carlsbad, NM 88220		City, State ZIP	င္ပ	Carlsbad, NM 88220	Reporting Level II	「□TRRP□ LevelIV□	
Phone	303-887-2946	Email	Garret.Green@	Exxonly	Email Garret.Green@ExxonMobil com kjennings@ensolum com	Deliverables EDD	Other	
Project Name	Ross Draw 3031	Turn	Turn Around		ANALYSIS REC	IS REQUEST	Preservative Codes	
Project Number	03E1558139	☑ Routine	Rush	Code		None NO	e NO DI Water H ₂ O	
Project Location	32 00075, -103 91531	Due Date				Cool Cool	Cool MeOH Me	
Sampler's Name	Kase Parker	TAT starts the	TAT starts the day received by			HCL HC	. HC HNO ₃ HN	
PO#		the lab if rec	the lab if received by 4 30pm	rs		H ₂ S0 ₄ H ₂	0 ₄ H ₂ NaOH Na	

SAMPLE RECEIPT

Temp Blank Yes

Yes No

Wet Ice

Yes) No

Parameters

8 0

Thermometer ID

T-Nm.op

N/A N/A

Cooler Custody Seals Samples Received Intact

Yes Yes No

S O

Temperature Reading. Correction Factor:

CHLORIDES (EPA 300.0)

Corrected Temperature:

otal Containers ample Custody Seals

Sample Identification

Matrix

Date Sampled

Sampled

Time

Depth

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TPH (8015)

BTEX (8021

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Incident ID nAPP2227244441

Cost Center

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ıg:		mstances beyond the control	ferenties Pener A minimum charge 646 nor 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 survivies 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 survivies 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 survivies 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 survivies and shall not such assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of survivies and shall not such assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of survivies and shall not such assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of survivies and shall not such assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances.	or expenses in	any losses	onsibility for	ne any resp	shall not assur	st of samples and	able only for the co	of Service. Eurofins Xenco will be I
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12/1/22 11:17

TOTAL CIACLES	Order
	22189

Page 33 of 35

NaOH+Ascorbic Acid SAPC

Sample Comments

Zn Acetate+NaOH Zn

NaHSO₄ NABIS Na₂S₂O₃ NaSO₃

H₂SO₄ H₂

H₃PO₄ HP

Revised Date 08/25/2020 Rev 2020.2

Chain of Custody

					_	
	Reporting Level II PST/UST TRRP Level IV	Carlsbad NM 88220	City, State ZIP	Carlsbad, NM 88220		, State ZIP
	State of Project:	3104 E Green St.	Address	3122 National Parks Hwy	3122 N	dress
	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	XTO Energy	Company Name	m	1	mpany Name
	Work Order Comments	Garret Green	Bill to (if different)	ennings	. 1	ject Manager
	www.xenco.com Page C of C				1	
	j	Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199	Hobbs NN			
		EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296	EL Paso 1	1		
1	Work Order No:	Midland TX (432) 704-5440 San Antonio TX (210) 509-3334	Midland TX	8		
12/		Houston TX (281) 240-4200 Dallas TX (214) 902-0300	Houston			
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Project Manager:	Kalei lenninge			mater and the		,	.		-				_ _		-						
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y Name	Ensolum			Company Name	ne	XIC	XTO Energy	¥						ogram	: UST/P	ST	Ř₽□	Brown	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	C Superfund ☐	md
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PO#:			the lab if rece	the lab if received by 4 30pm																	
SAMPLE RECEIPT	T Temp Blank	Yes No	Wet Ice	Yee No	eter)						***********				***************************************	***************************************		1120U4 112	NaOH Na	Ω.
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Sample Custody Seals	Yes No N/A	↑ Temperature Reading	Reading	44		(EF													7n Acetate+NaOH 7n	DE Zn	
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Sample Identification	lication Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	y # of Cont	라 카 CHLOR	TPH (80	BTEX (8											Sample	Sample Comments	Page
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Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be ana	lyzed	TCLP / SI	TCLP / SPLP 6010 8	8RCRA		Sb As Ba	Be	Cd Cr Co Cu Pb Mn Mo Ni Se Aa Ti U	ဂ	E P	Mn M	Z,	ř A			Ŧ '	631 /	245	17471	
Notice Signature of this do	cument and relinquishme	nt of samples cons	titutes a valid nu	rchase order fro	n client	Compan	to Eur	offine Vo	i i	Filiatoo											
of service. Eurofins Xenco, A minimum charge of \$85,00 will be applied to each project and salter of service of the cost of service 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 shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	will be liable only for the o	cost of samples and	d shall not assum	ne any responsik	ility for	compan any loss	y to Eur	otins Xe penses	nco, its ai	filliates a	ent if suc	h losses	s It ass are due	igns star to circur	ndard ter mstances	ms and o	condition the cont	ro is			ıg: 1
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Received by (Signature) 21-22 11:17 Date/Time Relinquished by (Signature) Received by (Signature) Revised Date 08/25/2020 Rev 2020.2 Date/Time

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 880-22189-1

 SDG Number: 03E1558139

List Source: Eurofins Midland

Login Number: 22189 List Number: 1

Creator: Kramer, Jessica

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 12/8/2022 11:53:08 AM

JOB DESCRIPTION

Ross Draw 3031 SDG NUMBER 03E1558139

JOB NUMBER

880-22190-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 12/8/2022 11:53:08 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 5

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Client: Ensolum Project/Site: Ross Draw 3031 Laboratory Job ID: 880-22190-1

SDG: 03E1558139

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Definitions/Glossary

Job ID: 880-22190-1 Client: Ensolum Project/Site: Ross Draw 3031

SDG: 03E1558139

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

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**

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 880-22190-1

SDG: 03E1558139

Job ID: 880-22190-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22190-1

Receipt

The samples were received on 12/1/2022 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41160 and analytical batch 880-41157 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22189-A-2-J). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-22110-A-1-D) and (880-22110-A-1-E) MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 880-22190-1

Client Sample Results

 Client: Ensolum
 Job ID: 880-22190-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Client Sample ID: PH03

Date Collected: 11/23/22 11:35 Date Received: 12/01/22 11:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
m-Xylene & p-Xylene	0.0132		0.00398	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
o-Xylene	0.0132		0.00199	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
Xylenes, Total	0.0264		0.00398	mg/Kg		12/06/22 11:32	12/07/22 00:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			12/06/22 11:32	12/07/22 00:57	1
1,4-Difluorobenzene (Surr)	126		70 - 130			12/06/22 11:32	12/07/22 00:57	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0264		0.00398	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Dies	al Banga Organ	ico (DBO) (CC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	667		50.0	mg/Kg	— <u> </u>		12/07/22 09:45	
	• • • • • • • • • • • • • • • • • • • •							1
				0 0			12/01/22 09.43	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)				12/07/22 09.43	1
Method: SW846 8015B NM - Die Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics			• •		<u>D</u>	Prepared 12/05/22 11:32		Dil Fac
Analyte	Result		RL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 141	Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg	<u> </u>	12/05/22 11:32	Analyzed 12/06/22 19:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 141 526	Qualifier U	FL 50.0	unit mg/Kg mg/Kg	<u> </u>	12/05/22 11:32 12/05/22 11:32	Analyzed 12/06/22 19:13 12/06/22 19:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 141 526 <50.0	Qualifier U	RL 50.0 50.0 50.0	unit mg/Kg mg/Kg	<u> </u>	12/05/22 11:32 12/05/22 11:32 12/05/22 11:32	Analyzed 12/06/22 19:13 12/06/22 19:13 12/06/22 19:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 141 526 <50.0 %Recovery	Qualifier U	50.0 50.0 50.0 <i>Limits</i>	unit mg/Kg mg/Kg	<u>D</u>	12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared	Analyzed 12/06/22 19:13 12/06/22 19:13 12/06/22 19:13 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 141 526 <50.0 %Recovery 119 113	Qualifier U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u> </u>	12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32	Analyzed 12/06/22 19:13 12/06/22 19:13 12/06/22 19:13 Analyzed 12/06/22 19:13	·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 141 526 <50.0 %Recovery 119 113 s, Ion Chromato.	Qualifier U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32	Analyzed 12/06/22 19:13 12/06/22 19:13 12/06/22 19:13 Analyzed 12/06/22 19:13	Dil Fac

Client Sample ID: PH03A

Date Collected: 11/23/22 11:50 Date Received: 12/01/22 11:17

Date Received: 12/01/22 11

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/06/22 11:32	12/07/22 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/06/22 11:32	12/07/22 01:18	

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-22190-2

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Client Sample Results

Client: Ensolum Job ID: 880-22190-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH03A Lab Sample ID: 880-22190-2 Date Collected: 11/23/22 11:50

%Recovery Qualifier

117

113

Matrix: Solid

Prepared

12/05/22 11:32

12/05/22 11:32

Analyzed

12/06/22 19:35

12/06/22 19:35

Dil Fac

Date Received: 12/01/22 11:17 Sample Depth: 4'

Surrogate

o-Terphenyl

1-Chlorooctane

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130			12/06/22 11:32	12/07/22 01:18	1
Method: TAL SOP Total BTEX - To	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/07/22 10:39	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	526		49.9	mg/Kg	_		12/07/22 09:45	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/05/22 11:32	12/06/22 19:35	1
Diesel Range Organics (Over C10-C28)	526		49.9	mg/Kg		12/05/22 11:32	12/06/22 19:35	1
The state of the s		U	49.9			12/05/22 11:32	12/06/22 19:35	

Method: MCAWW 300.0 - Anions, I	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9	5.01	mg/Kg			12/08/22 08:46	1

Limits

70 - 130

70 - 130

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

 Client: Ensolum
 Job ID: 880-22190-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22189-A-2-H MS	Matrix Spike	79	100
880-22189-A-2-I MSD	Matrix Spike Duplicate	73	102
880-22190-1	PH03	92	126
880-22190-2	PH03A	88	102
LCS 880-41160/1-A	Lab Control Sample	76	107
LCSD 880-41160/2-A	Lab Control Sample Dup	80	99
MB 880-41160/5-A	Method Blank	67 S1-	103
Surrogate Legend			
BFB = 4-Bromofluoroben	zene (Surr)		

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22110-A-1-E MS	Matrix Spike	142 S1+	112
880-22110-A-1-F MSD	Matrix Spike Duplicate	120	99
880-22190-1	PH03	119	113
880-22190-2	PH03A	117	113
LCS 880-41024/2-A	Lab Control Sample	129	120
LCSD 880-41024/3-A	Lab Control Sample Dup	129	117
MB 880-41024/1-A	Method Blank	130	127

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 880-22190-1 Project/Site: Ross Draw 3031

SDG: 03E1558139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41160/5-A

Lab Sample ID: LCS 880-41160/1-A

Matrix: Solid Analysis Batch: 41157 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41160

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/22 11:32	12/06/22 18:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/22 11:32	12/06/22 18:55	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	12/06/22 11:32	12/06/22 18:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/06/22 11:32	12/06/22 18:55	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41160

Prep Type: Total/NA

Prep Batch: 41160

2

35

35

Analysis Batch: 41157 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09296 mg/Kg 93 70 - 130 Toluene 0.100 0.09973 mg/Kg 100 70 - 130 0.100 0.09287 Ethylbenzene mg/Kg 93 70 - 130 0.200 0.1622 81 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.07929 70 - 130 o-Xylene mg/Kg 79

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-41160/2-A Client Sample ID: Lab Control Sample Dup

0.1588

0.07789

0.200

0.100

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Matrix: Solid

Analysis Batch: 41157

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits RPD Limit 0.08382 0.100 mg/Kg 84 70 - 130 10 35 0.100 0.09298 mg/Kg 93 70 - 130 35 0.100 0.09005 mg/Kg 90 70 - 130 3 35

79

78

70 - 130

70 - 130

mg/Kg

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prop Patch: 41024

Client Sample ID: Lab Control Sample Dup

Prep Batch: 41024

QC Sample Results

Client: Ensolum Job ID: 880-22190-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

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

Lab Sample ID: MB 880-41024/1-A

Matrix: Solid Analysis Batch: 41104

Prep Type: Total/NA

Prep Batch: 41024 MR MR

	1110	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/05/22 11:32	12/06/22 08:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/05/22 11:32	12/06/22 08:55	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/05/22 11:32	12/06/22 08:55	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane 130 70 - 130 12/05/22 11:32 12/06/22 08:55 o-Terphenyl 127 70 - 130 12/05/22 11:32 12/06/22 08:55 Lab Sample ID: LCS 880-41024/2-A **Client Sample ID: Lab Control Sample**

Analysis Batch: 41104

Matrix: Solid

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits 1000 840.2 84 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 897.2 mg/Kg 90 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 129 70 - 130 o-Terphenyl 120 70 - 130

Lab Sample ID: LCSD 880-41024/3-A

Matrix: Solid Analysis Batch: 41104

Allalysis Datcil. 41104							Fieh	Datell.	41024
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	836.2		mg/Kg		84	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	886.7		mg/Kg		89	70 - 130	1	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 129 117 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Method Blank Lab Sample ID: MB 880-40959/1-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41085

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/07/22 22:10	1

QC Sample Results

Client: Ensolum Job ID: 880-22190-1 Project/Site: Ross Draw 3031

SDG: 03E1558139

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40959/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41085

	Spike	LCS	LCS				%Rec		
Analyte	Added	l Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	267.0		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-40959/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41085

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	267.4		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 880-22190-1 SDG: 03E1558139

GC VOA

Analysis Batch: 41157

Lab Sample ID 880-22190-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 41160
880-22190-2	PH03A	Total/NA	Solid	8021B	41160
MB 880-41160/5-A	Method Blank	Total/NA	Solid	8021B	41160
LCS 880-41160/1-A	Lab Control Sample	Total/NA	Solid	8021B	41160
LCSD 880-41160/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41160

Prep Batch: 41160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Total/NA	Solid	5035	
880-22190-2	PH03A	Total/NA	Solid	5035	
MB 880-41160/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41160/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41160/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 41261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Total/NA	Solid	Total BTEX	
880-22190-2	PH03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41024

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
8	880-22190-1	PH03	Total/NA	Solid	8015NM Prep
8	80-22190-2	PH03A	Total/NA	Solid	8015NM Prep
٨	/IB 880-41024/1-A	Method Blank	Total/NA	Solid	8015NM Prep
L	.CS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
L	.CSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 41104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Total/NA	Solid	8015B NM	41024
880-22190-2	PH03A	Total/NA	Solid	8015B NM	41024
MB 880-41024/1-A	Method Blank	Total/NA	Solid	8015B NM	41024
LCS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41024
LCSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41024

Analysis Batch: 41231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Total/NA	Solid	8015 NM	
880-22190-2	PH03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Soluble	Solid	DI Leach	
880-22190-2	PH03A	Soluble	Solid	DI Leach	
MB 880-40959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

 Client: Ensolum
 Job ID: 880-22190-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

HPLC/IC

Analysis Batch: 41085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22190-1	PH03	Soluble	Solid	300.0	40959
880-22190-2	PH03A	Soluble	Solid	300.0	40959
MB 880-40959/1-A	Method Blank	Soluble	Solid	300.0	40959
LCS 880-40959/2-A	Lab Control Sample	Soluble	Solid	300.0	40959
LCSD 880-40959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40959

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Client: Ensolum

Job ID: 880-22190-1 Project/Site: Ross Draw 3031 SDG: 03E1558139

Client Sample ID: PH03 Lab Sample ID: 880-22190-1

Date Collected: 11/23/22 11:35 **Matrix: Solid** Date Received: 12/01/22 11:17

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			41160	MNR	EET MID	12/06/22 11:32
Total/NA	Analysis	8021B		1	41157	MNR	EET MID	12/07/22 00:57
Total/NA	Analysis	Total BTEX		1	41261	SM	EET MID	12/07/22 10:39
Total/NA	Analysis	8015 NM		1	41231	SM	EET MID	12/07/22 09:45
Total/NA	Prep	8015NM Prep			41024	DM	EET MID	12/05/22 11:32
Total/NA	Analysis	8015B NM		1	41104	SM	EET MID	12/06/22 19:13
Soluble	Leach	DI Leach			40959	SMC	EET MID	12/03/22 13:50
Soluble	Analysis	300.0		1	41085	CH	EET MID	12/08/22 08:26

Lab Sample ID: 880-22190-2 Client Sample ID: PH03A

Date Collected: 11/23/22 11:50 **Matrix: Solid** Date Received: 12/01/22 11:17

41085 CH

EET MID

12/08/22 08:46

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5035 12/06/22 11:32 Total/NA Prep 41160 MNR EET MID Total/NA 8021B 41157 MNR 12/07/22 01:18 Analysis 1 **EET MID** Total/NA Total BTEX 12/07/22 10:39 Analysis 1 41261 SM **EET MID** Total/NA Analysis 8015 NM 41231 SM **EET MID** 12/07/22 09:45 12/05/22 11:32 Total/NA Prep 8015NM Prep 41024 DM **EET MID** Total/NA Analysis 8015B NM 41104 SM **EET MID** 12/06/22 19:35 12/03/22 13:50 Soluble **EET MID** Leach DI Leach 40959 SMC

Laboratory References:

Analysis

Soluble

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

300.0

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 880-22190-1

 Project/Site: Ross Draw 3031
 SDG: 03E1558139

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	·,,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	, , ,	

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EET MID

EET MID

Method Summary

Client: Ensolum

Job ID: 880-22190-1 SDG: 03E1558139 Project/Site: Ross Draw 3031

Method Description	Protocol	Laboratory
Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX Calculation	TAL SOP	EET MID
Diesel Range Organics (DRO) (GC)	SW846	EET MID
Diesel Range Organics (DRO) (GC)	SW846	EET MID
Anions, Ion Chromatography	MCAWW	EET MID
Closed System Purge and Tran	SW846	FET MID

SW846

ASTM

Protocol References:

Method 8021B Total BTEX 8015 NM 8015B NM 300.0 5035 8015NM Prep

DI Leach

ASTM = ASTM International

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 880-22190-1

SDG: 03E1558139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22190-1	PH03	Solid	11/23/22 11:35	12/01/22 11:17	1'
880-22190-2	PH03A	Solid	11/23/22 11:50	12/01/22 11:17	4'

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA

13PPM

Texas 11 Al Sb

As

Ba Be B

ဥ

Ca Cr Co Cu Fe Pb Mg

Mn Mo Ni K Se

Ag SiO₂ Na

Sr TI Sn U

<

Z'n

AFE

Cost Center nAPP2227244441 Incident ID

1067631001

Hg 1631 / 245 1 / 7470 / 7471

880-22190 Chain of Custody

TCLP / SPLP 6010 8RCRA

Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

Seurofins

13 14

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 Houston TX (281) 240-4200 Dallas TX (214) 902-0300

Work Order No:

	Hobbs NA	Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199	
			www.xenco.com Page \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Kaleı Jennings	Bill to (if different)	Garret Green	Work Order Comments
Ensolum	Company Name	XTO Energy	Program: UST/PST PRP Brownfields RRC Superfund
3122 National Parks Hwy	Address	3104 E Green St.	State of Project:
Carlsbad NM 88220	City, State ZIP	Carlsbad NM 88220	Reporting Level II Level III PST/JST TRRP Level IV
303-887-2946	Email Garret Green@Ex	Email Garret Green@ExxonMobil.com kiennings@ensolium.com	Deliverables EDD ADaPT Other

Project Number

roject Name:

Ross Draw 3031

03E1558139

City, State ZIP:

303-8

Address

Project Manager

ompany Name.

Sampler's Name

roject Location

Due Date

✓ Routine

Rush

Pres

ANALYSIS REQUEST

Turn Around

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

Kase Parker

SAMPLE RECEIPT

Temp Blank.

Yes No

Wet Ice

Yes No

Parameters

Yes

<u>Z</u>

Thermometer ID:

T-NM-OU

Cooler Custody Seals.

Imple Custody Seals

Yes Yes No

8

N/A Temperature Reading N/A Correction Factor

CHLORIDES (EPA 300.0)

Corrected Temperature

otal Containers

Sample Identification

Matrix

Date

Time Sampled

Depth

Grab/

TPH (8015)

BTEX (8021

Comp

Cont # of

PH03A PH03

S S

11/23/2022

Grab/ Grab/

11/23/2022 Sampled

<u>~</u>

samples Received Intact.

rables EDD ☐ ADaPT ☐ Other	rables
ting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐	ing Le
of Project:	of Pro
am: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	m: C:

Odpe	Preservative Codes				200
	Other	ADaPT 🗆	bles EDD	EDI	bles
Level IV	☐ TRRP ☐	g Level∥ □LevelⅢ □PST/UST □TRRP □	l ∐Level III	evel II	g L
				Project:	77

HCL HC H₂S0₄ H₂

NaOH Na HNO3 HN МеОН Ме DI Water H₂O

Cool Cool None NO

EDD ☐ ADaPT ☐ Other
evel II
ject:
ST/PST 🗌 PRP 🗌 Brownfields 📗 RRC 📗 Superfund 🔲
Work Order Comments

service Eurofins Xenco will be liable only Eurofins Xenco A minimum charge of \$85	f 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 cilent 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	ibility for any losses or expenses in a ch sample submitted to Eurofins X	curred by the client if such losses are due to circ enco, but not analyzed. These terms will be enfor	umstances beyond the control ced unless previously negotiated	
Relinguished by (Signature)	Received by (Signature)			The second secon	
		Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Moul an	2	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time

Page 18 of 19

NaOH+Ascorbic Acid SAPC

Sample Comments

Zn Acetate+NaOH Zn Na2S2O3 NaSO3 NaHSO₄ NABIS H₃PO₄ HP

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 880-22190-1

 SDG Number: 03E1558139

List Source: Eurofins Midland

Login Number: 22190 List Number: 1

Creator: Kramer, Jessica

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/24/2023 12:39:57 PM

JOB DESCRIPTION

Ross Draw 3031 SDG NUMBER 03C1558139

JOB NUMBER

890-4661-1

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 5/24/2023 12:39:57 PM

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

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

Page 2 of 35

5/24

Client: Ensolum
Project/Site: Ross Draw 3031
Laboratory Job ID: 890-4661-1
SDG: 03C1558139

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Definitions/Glossary

Job ID: 890-4661-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

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. Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. ¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4661-1

SDG: 03C1558139

Job ID: 890-4661-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4661-1

Receipt

The samples were received on 5/15/2023 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4661-1), SW02 (890-4661-2), FS01 (890-4661-3), FS02 (890-4661-4), FS03 (890-4661-5), FS04 (890-4661-6), BH01 (890-4661-7), BH01A (890-4661-8), BH01B (890-4661-9), BH01C (890-4661-10) and BH01D (890-4661-11).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53790 recovered under the lower and/or insufficient spike for CCV control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-53606/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-4661-7) and BH01A (890-4661-8). 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: BH01 (890-4661-7) and (MB 880-53898/5-A). 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 880-53898 and analytical batch 880-53944 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53469 and analytical batch 880-53450 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-53469/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-4659-A-9-B). 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: SW01 (890-4661-1), SW02 (890-4661-2), FS01 (890-4661-3), FS02 (890-4661-4), FS03 (890-4661-5), FS04 (890-4661-6), BH01 (890-4661-7), BH01A (890-4661-8), BH01B (890-4661-9) and BH01C (890-4661-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Client Sample ID: SW01

Client Sample ID: 890-4661-1

Date Collected: 05/12/23 11:35

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 0-2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/17/23 15:10	05/19/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/17/23 15:10	05/19/23 19:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130			05/17/23 15:10	05/19/23 19:53	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/22/23 16:14	1
Method: SW846 8015 NM - Diese	•		•	Unit	n	Drangrad	Analyzod	Dil Fac
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•		•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/17/23 12:07	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 108	Qualifier nics (DRO)	RL 49.9	mg/Kg	=	<u> </u>	05/17/23 12:07	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 108 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u>D</u>	Prepared	05/17/23 12:07 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 108	Qualifier nics (DRO) Qualifier	RL 49.9	mg/Kg	=	<u> </u>	05/17/23 12:07	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 108 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	=	Prepared	05/17/23 12:07 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 108 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 05/16/23 11:47	05/17/23 12:07 Analyzed 05/17/23 01:27	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 108 sel Range Orga Result <49.9 108	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 05/16/23 11:47 05/16/23 11:47	05/17/23 12:07 Analyzed 05/17/23 01:27 05/17/23 01:27	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 108 sel Range Orga Result < 49.9 108 49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 05/16/23 11:47 05/16/23 11:47	05/17/23 12:07 Analyzed 05/17/23 01:27 05/17/23 01:27	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 108	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared	05/17/23 12:07 Analyzed 05/17/23 01:27 05/17/23 01:27 05/17/23 01:27 Analyzed	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	Result 108	Qualifier nics (DRO) Qualifier U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	05/17/23 12:07 Analyzed 05/17/23 01:27 05/17/23 01:27 Analyzed 05/17/23 01:27	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 108	Qualifier nics (DRO) Qualifier U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	05/17/23 12:07 Analyzed 05/17/23 01:27 05/17/23 01:27 Analyzed 05/17/23 01:27	1 1 <i>Dil Fac</i>

Client Sample ID: SW02 Lab Sample ID: 890-4661-2

Date Collected: 05/12/23 13:20 Date Received: 05/15/23 09:36

Sample Depth: 0-2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/17/23 15:10	05/19/23 20:19	

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Matrix: Solid

trix: So

Released to Imaging: 11/29/2023 3:07:47 PM

Client Sample Results

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

roject/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: SW02

Date Collected: 05/12/23 13:20

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 0-2'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	98	70 - 130	05/17/23 15:10	05/19/23 20:19	1

Method: TAL SOP To	tal RTEY - Total I	RTEY Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/17/23 12:07	1

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

		,	\ <i>\</i>					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/17/23 01:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/17/23 01:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/17/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	05/16/23 11:47	05/17/23 01:49	1
o-Terphenyl	138 S	S1+	70 - 130	05/16/23 11:47	05/17/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	757		25.2	mg/Kg			05/18/23 02:22	5

Client Sample ID: FS01 Lab Sample ID: 890-4661-3

Date Collected: 05/12/23 11:30 Date Received: 05/15/23 09:36

Sample Depth: 2'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

Welliou. 344040 002 IB - Volatile C	Jiganic Comp	ounus (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/17/23 15:10	05/19/23 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			05/17/23 15:10	05/19/23 20:45	1

4-Bromofluorobenzene (Surr)	127	70 - 130	05/17/23 15:10 05/19/23 20:45 1	į
1,4-Difluorobenzene (Surr)	99	70 - 130	05/17/23 15:10 05/19/23 20:45 1	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	_		05/22/23 16:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	187		49.8	mg/Kg			05/17/23 12:07	1

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Matrix: Solid

Project/Site: Ross Draw 3031

Client: Ensolum Job ID: 890-4661-1 SDG: 03C1558139

Lab Sample ID: 890-4661-3

Client Sample ID: FS01 Date Collected: 05/12/23 11:30

Date Received: 05/15/23 09:36

Matrix: Solid

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/16/23 11:47	05/17/23 02:10	1
Diesel Range Organics (Over C10-C28)	187		49.8	mg/Kg		05/16/23 11:47	05/17/23 02:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/16/23 11:47	05/17/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/16/23 11:47	05/17/23 02:10	1
o-Terphenyl	138	S1+	70 - 130			05/16/23 11:47	05/17/23 02:10	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			25.1	mg/Kg			05/18/23 02:28	5

Lab Sample ID: 890-4661-4 **Client Sample ID: FS02** Date Collected: 05/12/23 13:35

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 2'

Method: SW846 8021B - Volatile								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/17/23 15:10	05/19/23 21:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/17/23 15:10	05/19/23 21:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
· ······ y · ·								
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		— – n	Prenared		
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.9	ics (DRO) (Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 05/17/23 12:07	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u U U U U U U U U U U U U U U U U U	GC) RL 49.9 (GC) RL	Unit mg/Kg		Prepared	Analyzed 05/17/23 12:07	Dil Fac
Total BTEX 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 <49.9 sel Range Orga Result <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/16/23 11:47	Analyzed 05/17/23 12:07 Analyzed 05/17/23 02:32	Dil Fac
Total BTEX 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 <49.9 sel Range Orga Result <49.9 <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/16/23 11:47 05/16/23 11:47	Analyzed 05/17/23 12:07 Analyzed 05/17/23 02:32 05/17/23 02:32	Dil Fac
Total BTEX 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 <49.9 sel Range Orga Result <49.9 <49.9 <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/16/23 11:47 05/16/23 11:47	Analyzed 05/17/23 12:07 Analyzed 05/17/23 02:32 05/17/23 02:32	Dil Fac Dil Fac 1

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Job ID: 890-4661-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: FS02 Lab Sample ID: 890-4661-4 Date Collected: 05/12/23 13:35

Date Received: 05/15/23 09:36

Matrix: Solid

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415	24.9	mg/Kg			05/18/23 02:33	5

Client Sample ID: FS03 Lab Sample ID: 890-4661-5

Date Collected: 05/12/23 13:40 Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			05/17/23 15:10	05/19/23 21:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/17/23 15:10	05/19/23 21:36	1
Method: TAL SOP Total BTEX - 1	Γotal BTEX Cal	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1
Analyte Total TPH	<50.0	Qualifier U		Unit mg/Kg	D	Prepared	Analyzed 05/17/23 12:07	Dil Fac
Total TPH - -	<50.0	U	50.0	mg/Kg			05/17/23 12:07	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
		(- /	(00)					
Analyte	• •	Qualifier	RL RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	• •	Qualifier	•	Unit mg/Kg	D	Prepared 05/16/23 11:47	Analyzed 05/17/23 02:53	
Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL		<u>D</u>	<u>.</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	05/16/23 11:47	05/17/23 02:53	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U Qualifier	50.0 50.0	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47	05/17/23 02:53 05/17/23 02:53	1
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>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47	05/17/23 02:53 05/17/23 02:53 05/17/23 02:53	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared	05/17/23 02:53 05/17/23 02:53 05/17/23 02:53 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0 <50.0	Qualifier U U Qualifier S1+ S1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	05/17/23 02:53 05/17/23 02:53 05/17/23 02:53 Analyzed 05/17/23 02:53	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier S1+ S1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	05/17/23 02:53 05/17/23 02:53 05/17/23 02:53 Analyzed 05/17/23 02:53	Dil Face 1 Dil Face 1 Dil Face

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Matrix: Solid

Lab Sample ID: 890-4661-6

Job ID: 890-4661-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: FS04

Date Collected: 05/12/23 13:45 Date Received: 05/15/23 09:36

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/17/23 15:10	05/19/23 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			05/17/23 15:10	05/19/23 22:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/17/23 15:10	05/19/23 22:01	1
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/22/23 16:14	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/17/23 12:07	-
-							00/11/20 12.07	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)				00/11/20 12:07	1
Method: SW846 8015B NM - Die Analyte	• •	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	1 Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 05/16/23 11:47		
Analyte	Result	Qualifier U	RL		<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	05/16/23 11:47	Analyzed 05/17/23 03:15	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U U U	RL 49.8 49.8	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47	Analyzed 05/17/23 03:15 05/17/23 03:15	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 49.8 <49.8 <49.8	Qualifier U U U	RL 49.8 49.8 49.8	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47	Analyzed 05/17/23 03:15 05/17/23 03:15 05/17/23 03:15	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	### ### ##############################	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared	Analyzed 05/17/23 03:15 05/17/23 03:15 05/17/23 03:15 Analyzed	Dil Face 1 1 1 Dil Face
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 S1+	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	Analyzed 05/17/23 03:15 05/17/23 03:15 05/17/23 03:15 Analyzed 05/17/23 03:15	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 S1+	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/16/23 11:47 05/16/23 11:47 05/16/23 11:47 Prepared 05/16/23 11:47	Analyzed 05/17/23 03:15 05/17/23 03:15 05/17/23 03:15 Analyzed 05/17/23 03:15	Dil Fac

Client Sample ID: BH01

Lab Sample ID: 890-4661-7 Date Collected: 05/12/23 08:15 Date Received: 05/15/23 09:36 Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00747		0.00200	mg/Kg		05/17/23 15:10	05/19/23 22:27	1
Toluene	<0.100	U	0.100	mg/Kg		05/22/23 15:02	05/23/23 22:39	50
Ethylbenzene	0.159		0.00200	mg/Kg		05/17/23 15:10	05/19/23 22:27	1
m-Xylene & p-Xylene	2.95		0.201	mg/Kg		05/22/23 15:02	05/23/23 22:39	50
o-Xylene	1.32		0.100	mg/Kg		05/22/23 15:02	05/23/23 22:39	50
Xylenes, Total	4.27		0.201	mg/Kg		05/22/23 15:02	05/23/23 22:39	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	515	S1+	70 - 130			05/17/23 15:10	05/19/23 22:27	

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Matrix: Solid

Released to Imaging: 11/29/2023 3:07:47 PM

Matrix: Solid

Lab Sample ID: 890-4661-7

Lab Sample ID: 890-4661-8

Matrix: Solid

Job ID: 890-4661-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: BH01

Date Collected: 05/12/23 08:15 Date Received: 05/15/23 09:36

Sample Depth: 0.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	05/17/23 15:10	05/19/23 22:27	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.44	0.201	mg/Kg			05/22/23 16:14	1

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

Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5020	49.8	mg/Kg			05/17/23 12:07	1

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

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	914		49.8	mg/Kg		05/16/23 11:47	05/17/23 03:36	1
Diesel Range Organics (Over C10-C28)	3710		49.8	mg/Kg		05/16/23 11:47	05/17/23 03:36	1
Oll Range Organics (Over C28-C36)	393		49.8	mg/Kg		05/16/23 11:47	05/17/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	05/16/23 11:47	05/17/23 03:36	1
o-Terphenyl	137	S1+	70 - 130	05/16/23 11:47	05/17/23 03:36	1

Method: EPA 300.0 - Anions	, Ion Chromatography - Soluble
Analyto	Posult Qualifier

Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635	4.96	mg/Kg			05/18/23 03:00	1

Client Sample ID: BH01A

Date Collected: 05/12/23 08:20

Date Received: 05/15/23 09:36 Sample Depth: 1.0'

Mothod: SW946 9021B	- Volatilo Organi	ic Compounds (GC)

Method: SW846 8021B - Volati	ile Organic Comp	ounas (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
o-Xylene	0.0448		0.00199	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
Xylenes, Total	0.0448		0.00398	mg/Kg		05/17/23 15:10	05/19/23 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			05/17/23 15:10	05/19/23 22:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130			05/17/23 15:10	05/19/23 22:52	1

Method: TAL SOP Total BTEX - Tot	tal BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0448	0.00398	mg/Kg			05/22/23 16:14	1

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Job ID: 890-4661-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: BH01A Lab Sample ID: 890-4661-8

Date Collected: 05/12/23 08:20 Matrix: Solid Date Received: 05/15/23 09:36

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	115		49.9	mg/Kg			05/17/23 12:07	1
Method: SW846 8015B NM - Diese	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		05/16/23 11:47	05/17/23 03:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	115		49.9	mg/Kg		05/16/23 11:47	05/17/23 03:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/23 11:47	05/17/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/16/23 11:47	05/17/23 03:58	1
o-Terphenyl	141	S1+	70 - 130			05/16/23 11:47	05/17/23 03:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 684 25.3 mg/Kg 05/18/23 03:05 Chloride

Client Sample ID: BH01B Lab Sample ID: 890-4661-9 Date Collected: 05/12/23 08:25 **Matrix: Solid**

Date Received: 05/15/23 09:36

Sample Depth: 2.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		05/17/23 15:10	05/19/23 23:18	
Toluene	<0.00198	U	0.00198	mg/Kg		05/17/23 15:10	05/19/23 23:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/17/23 15:10	05/19/23 23:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/17/23 15:10	05/19/23 23:18	1
o-Xylene	0.0164		0.00198	mg/Kg		05/17/23 15:10	05/19/23 23:18	
Xylenes, Total	0.0164		0.00396	mg/Kg		05/17/23 15:10	05/19/23 23:18	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/17/23 15:10	05/19/23 23:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/17/23 15:10	05/19/23 23:18	1
Analyte		culation Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 05/22/23 16:14	
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result 0.0164 el Range Organ	Qualifier	0.00396 GC)	mg/Kg	_ =		05/22/23 16:14	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result 0.0164 el Range Organ Result	Qualifier ics (DRO) (Qualifier	0.00396 GC)		<u>D</u>	Prepared Prepared		Dil Fac
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result 0.0164 el Range Organ	Qualifier ics (DRO) (Qualifier	0.00396 GC)	mg/Kg	_ =		05/22/23 16:14	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result 0.0164 el Range Organ Result <49.8 sel Range Orga	Qualifier ics (DRO) (Control of the property	0.00396 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/22/23 16:14 Analyzed 05/17/23 12:07	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result 0.0164 el Range Organ Result <49.8 sel Range Orga Result	Qualifier ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00396 RL 49.8 (GC) RL	mg/Kg	_ =	Prepared Prepared	05/22/23 16:14 Analyzed 05/17/23 12:07 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result 0.0164 el Range Organ Result <49.8 sel Range Orga	Qualifier ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00396 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/22/23 16:14 Analyzed 05/17/23 12:07	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result 0.0164 el Range Organ Result <49.8 sel Range Orga Result	Qualifier Qualifier U nics (DRO) (Compared to the property of the property	0.00396 RL 49.8 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	05/22/23 16:14 Analyzed 05/17/23 12:07 Analyzed	Dil Fac

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Matrix: Solid

Lab Sample ID: 890-4661-9

Job ID: 890-4661-1

Client: Ensolum SDG: 03C1558139 Project/Site: Ross Draw 3031

Client Sample ID: BH01B

Date Collected: 05/12/23 08:25 Date Received: 05/15/23 09:36

Sample Depth: 2.0'

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac	
1-Chlorooctane	113		70 - 130	05/16/23 1	1:47	05/17/23 04:20	1	
o-Terphenyl	142	S1+	70 - 130	05/16/23 1	1:47	05/17/23 04:20	1	
Method: EPA 300 0 - Anione Jon Ch	romatoaran	hy Colubia						

Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Chloride 5.05 mg/Kg 05/18/23 03:11 210

Client Sample ID: BH01C Lab Sample ID: 890-4661-10 Date Collected: 05/12/23 08:50 **Matrix: Solid**

Date Received: 05/15/23 09:36

Sample Denth: 3 0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 15:10	05/19/23 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			05/17/23 15:10	05/19/23 23:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/17/23 15:10	05/19/23 23:43	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1

Method: SW846 8015 NM - Diesel R	ange Organics (DRO) (GC	S)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			05/17/23 12:07	1

Listairi		· ·		9/9			00/11/20 12:01	•
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		05/16/23 11:47	05/17/23 04:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/16/23 11:47	05/17/23 04:41	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/23 11:47	05/17/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			05/16/23 11:47	05/17/23 04:41	1
o-Terphenyl	147	S1+	70 - 130			05/16/23 11:47	05/17/23 04:41	1

Method: EPA 300.0 - Anions, Ion C	hromatography	- Soluble					
Analyte	Result Qu	ialifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134	4.98	mg/Kg			05/18/23 08:47	1

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Released to Imaging: 11/29/2023 3:07:47 PM

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-28626-A-1-D MS	Matrix Spike	110	105	
880-28626-A-1-E MSD	Matrix Spike Duplicate	108	87	
890-4661-1	SW01	105	84	
890-4661-1 MS	SW01	108	90	
890-4661-1 MSD	SW01	110	114	
890-4661-2	SW02	115	98	
890-4661-3	FS01	127	99	
890-4661-4	FS02	109	98	
890-4661-5	FS03	125	91	
890-4661-6	FS04	114	95	
890-4661-7	BH01	515 S1+	90	
890-4661-8	BH01A	136 S1+	108	
890-4661-9	BH01B	118	96	
890-4661-10	BH01C	125	98	
LCS 880-53606/1-A	Lab Control Sample	101	108	
LCS 880-53898/1-A	Lab Control Sample	107	104	
LCSD 880-53606/2-A	Lab Control Sample Dup	108	115	
LCSD 880-53898/2-A	Lab Control Sample Dup	111	88	
MB 880-53606/5-A	Method Blank	61 S1-	87	
MB 880-53898/5-A	Method Blank	66 S1-	99	
MB 880-53946/5-A	Method Blank	71	80	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4659-A-9-C MS	Matrix Spike	116	128	
890-4659-A-9-D MSD	Matrix Spike Duplicate	112	127	
890-4661-1	SW01	111	136 S1+	
890-4661-2	SW02	113	138 S1+	
890-4661-3	FS01	112	138 S1+	
890-4661-4	FS02	111	136 S1+	
890-4661-5	FS03	135 S1+	160 S1+	
890-4661-6	FS04	117	142 S1+	
890-4661-7	BH01	143 S1+	137 S1+	
890-4661-8	BH01A	114	141 S1+	
890-4661-9	BH01B	113	142 S1+	
890-4661-10	BH01C	124	147 S1+	
LCS 880-53469/2-A	Lab Control Sample	93	117	
LCSD 880-53469/3-A	Lab Control Sample Dup	110	135 S1+	
MB 880-53469/1-A	Method Blank	164 S1+	211 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53606/5-A

Lab Sample ID: LCS 880-53606/1-A

Matrix: Solid

Analysis Batch: 53790

Matrix: Solid Analysis Batch: 53790 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53606

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/17/23 15:10	05/19/23 19:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 15:10	05/19/23 19:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/17/23 15:10	05/19/23 19:27	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	05/17/23 15:10	05/19/23 19:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/17/23 15:10	05/19/23 19:27	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53606

Prep Type: Total/NA

Prep Batch: 53606

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1179 mg/Kg 118 70 - 130 Toluene 0.100 0.1092 mg/Kg 109 70 - 130 0.100 Ethylbenzene 0.1107 mg/Kg 111 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.2324 mg/Kg 116 0.100 0.1120 70 - 130 o-Xylene mg/Kg 112

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

118

70 - 130

Matrix: Solid

Analyte
Benzene
Toluene
Ethylbenzene
m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 53790

Lab Sample ID: LCSD 880-53606/2-A

Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
 0.100	0.1249		mg/Kg		125	70 - 130	6	35	
0.100	0.1117		mg/Kg		112	70 - 130	2	35	
0.100	0.1142		mg/Kg		114	70 - 130	3	35	
0.200	0.2417		mg/Kg		121	70 - 130	4	35	

mg/Kg

0.1177

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-4661-1 MS

Matrix: Solid

Analysis Batch: 53790

Client Sample ID: SW01
Prep Type: Total/NA

Prep Batch: 53606

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1031		mg/Kg		103	70 - 130	
Toluene	<0.00200	U	0.0998	0.09288		mg/Kg		93	70 - 130	

0.100

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Client: Ensolum Project/Site: Ross Draw 3031

Job ID: 890-4661-1

SDG: 03C1558139

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

Lab Sample ID: 890-4661-1 MS

Matrix: Solid

Analysis Batch: 53790

Client Sample ID: SW01

Prep Type: Total/NA Prep Batch: 53606

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.08741		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1810		mg/Kg		91	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.08740		mg/Kg		88	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-4661-1 MSD Client Sample ID: SW01

Matrix: Solid

Analysis Batch: 53790

Prep Type: Total/NA

Prep Batch: 53606 RPD

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 122 Benzene <0.00200 U 0.1223 mg/Kg 70 - 130 17 35 Toluene <0.00200 U 0.100 0.1074 107 70 - 130 mg/Kg 14 35 Ethylbenzene <0.00200 U 0.100 0.1029 mg/Kg 103 70 - 130 16 35 m-Xylene & p-Xylene <0.00401 U 0.200 0.2112 mg/Kg 105 70 - 130 35 15 0.100 o-Xylene <0.00200 U 0.1041 104 70 - 130 17 mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: MB 880-53898/5-A

Matrix: Solid

Analysis Batch: 53944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53898

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 15:02	05/23/23 21:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 15:02	05/23/23 21:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 15:02	05/23/23 21:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/22/23 15:02	05/23/23 21:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 15:02	05/23/23 21:56	1
Xvlenes. Total	< 0.00400	U	0.00400	ma/Ka		05/22/23 15:02	05/23/23 21:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	05/22/23 15:02	05/23/23 21:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/22/23 15:02	05/23/23 21:56	1

Lab Sample ID: LCS 880-53898/1-A

Matrix: Solid

Analysis Batch: 53944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53898

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1307	*+	mg/Kg		131	70 - 130	
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1146		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2358		mg/Kg		118	70 - 130	

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QC Sample Results

Job ID: 890-4661-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

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

Lab Sample ID: LCS 880-53898/1-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 53944 Prep Batch: 53898 LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.1244 124 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 104

Lab Sample ID: LCSD 880-53898/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 53944 Prep Batch: 53898

Spike LCSD LCSD RPD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits D Benzene 0.100 0.1290 mg/Kg 129 70 - 130 35 Toluene 0.100 0.1103 mg/Kg 110 70 - 130 35 3 Ethylbenzene 0.100 0.1140 mg/Kg 114 70 - 130 0 35 m-Xylene & p-Xylene 0.200 0.2363 mg/Kg 118 70 - 130 35 0.100 0.1228 123 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 111 70 - 130 1,4-Difluorobenzene (Surr) 88 70 - 130

Lab Sample ID: 880-28626-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 53944 Prep Batch: 53898

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Benzene <0.00201 U *+ 0.0998 0.1106 mg/Kg 111 70 - 130 Toluene <0.00201 U 0.0998 0.09312 mg/Kg 93 70 - 130 Ethylbenzene <0.00201 U 0.0998 0.09424 mg/Kg 94 70 - 130 m-Xylene & p-Xylene < 0.00402 U 0.200 0.1949 mg/Kg 98 70 - 130 o-Xylene <0.00201 U 0.0998 0.09996 mg/Kg 100 70 - 130

MS MS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 70 - 130

105

Lab Sample ID: 880-28626-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 53944** Prep Batch: 53898

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U *+	0.100	0.1136		mg/Kg		113	70 - 130	3	35
Toluene	<0.00201	U	0.100	0.1011		mg/Kg		101	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.100	0.1009		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2066		mg/Kg		103	70 - 130	6	35
o-Xylene	<0.00201	U	0.100	0.1049		mg/Kg		105	70 - 130	5	35

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1,4-Difluorobenzene (Surr)

Client: Ensolum

Job ID: 890-4661-1 SDG: 03C1558139

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

Lab Sample ID: 880-28626-A-1-E MSD

Matrix: Solid

Analysis Batch: 53944

Project/Site: Ross Draw 3031

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53898

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 87 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53946

Lab Sample ID: MB 880-53946/5-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 53944

MB MB

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

Result Qualifier RL Unit D Prepared Analyzed Dil Fac 0.00200 05/23/23 08:48 05/23/23 11:20 mg/Kg 0.00200 mg/Kg 05/23/23 08:48 05/23/23 11:20 0.00200 05/23/23 08:48 05/23/23 11:20 mg/Kg 0.00400 mg/Kg 05/23/23 08:48 05/23/23 11:20 0.00200 mg/Kg 05/23/23 08:48 05/23/23 11:20

05/23/23 08:48

mg/Kg

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71	70 - 130	05/23/23 08:48	05/23/23 11:20	1
1,4-Difluorobenzene (Surr)	80	70 - 130	05/23/23 08:48	05/23/23 11:20	1

0.00400

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

Lab Sample ID: MB 880-53469/1-A

Matrix: Solid

Analysis Batch: 53450

Client Sample ID: Method Blank

05/23/23 11:20

Prep Type: Total/NA

Prep Batch: 53469

	1410	1410
_		_

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/16/23 19:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/16/23 19:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/23 11:47	05/16/23 19:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	05/16/23 11:47	05/16/23 19:50	1
o-Terphenyl	211	S1+	70 - 130	05/16/23 11:47	05/16/23 19:50	1

Lab Sample ID: LCS 880-53469/2-A

Matrix: Solid

Analysis Batch: 53450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53469

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Orga	nics	1000	918.7		mg/Kg		92	70 - 130	
(GRO)-C6-C10									
Diesel Range Organic	s (Over	1000	933.5		mg/Kg		93	70 - 130	
C10_C28\									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-4661-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

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

Lab Sample ID: LCSD 880-53469/3-A

Matrix: Solid

Analysis Batch: 53450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53469

Prep Batch: 53469

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	973.4		mg/Kg		97	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	971.2		mg/Kg		97	70 - 130	4	20
0.4.0.0003									

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 135 S1+ 70 - 130

Lab Sample ID: 890-4659-A-9-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 53450

	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	997	952.0		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1087		mg/Kg		106	70 - 130	

	INIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: 890-4659-A-9-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53450

		e: Total/NA tch: 53469
 HOD HOD	0/ 5	

١		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	907.1		mg/Kg		88	70 - 130	5	20
	Diesel Range Organics (Over C10-C28)	<49.9	U	999	1064		mg/Kg		104	70 - 130	2	20

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	127		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53473/1-A

MSD MSD

Matrix: Solid

Analysis Batch: 53587

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/18/23 01:50	1

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Prep Type: Soluble

Client Sample ID: Method Blank

QC Sample Results

Client: Ensolum Job ID: 890-4661-1 Project/Site: Ross Draw 3031

SDG: 03C1558139

Client Sample ID: SW01

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-53473/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53587

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 263.3 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-53473/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53587

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 264.6 mg/Kg 106 90 - 110 0

Lab Sample ID: 890-4661-1 MS Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53587

%Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 413 1240 1755 108 90 - 110 mg/Kg

Lab Sample ID: 890-4661-1 MSD

Matrix: Solid

Analysis Batch: 53587

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 1240 1756 Chloride 413 108 90 - 110 0 20 mg/Kg

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

GC VOA

Prep Batch: 53606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4661-1	SW01	Total/NA	Solid	5035	
890-4661-2	SW02	Total/NA	Solid	5035	
890-4661-3	FS01	Total/NA	Solid	5035	
890-4661-4	FS02	Total/NA	Solid	5035	
890-4661-5	FS03	Total/NA	Solid	5035	
890-4661-6	FS04	Total/NA	Solid	5035	
890-4661-7	BH01	Total/NA	Solid	5035	
890-4661-8	BH01A	Total/NA	Solid	5035	
890-4661-9	BH01B	Total/NA	Solid	5035	
890-4661-10	BH01C	Total/NA	Solid	5035	
MB 880-53606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4661-1 MS	SW01	Total/NA	Solid	5035	
890-4661-1 MSD	SW01	Total/NA	Solid	5035	

Analysis Batch: 53790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Total/NA	Solid	8021B	53606
890-4661-2	SW02	Total/NA	Solid	8021B	53606
890-4661-3	FS01	Total/NA	Solid	8021B	53606
890-4661-4	FS02	Total/NA	Solid	8021B	53606
890-4661-5	FS03	Total/NA	Solid	8021B	53606
890-4661-6	FS04	Total/NA	Solid	8021B	53606
890-4661-7	BH01	Total/NA	Solid	8021B	53606
890-4661-8	BH01A	Total/NA	Solid	8021B	53606
890-4661-9	BH01B	Total/NA	Solid	8021B	53606
890-4661-10	BH01C	Total/NA	Solid	8021B	53606
MB 880-53606/5-A	Method Blank	Total/NA	Solid	8021B	53606
LCS 880-53606/1-A	Lab Control Sample	Total/NA	Solid	8021B	53606
LCSD 880-53606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53606
890-4661-1 MS	SW01	Total/NA	Solid	8021B	53606
890-4661-1 MSD	SW01	Total/NA	Solid	8021B	53606

Prep Batch: 53898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-7	BH01	Total/NA	Solid	5035	<u> </u>
MB 880-53898/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53898/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53898/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28626-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-28626-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Total/NA	Solid	Total BTEX	
890-4661-2	SW02	Total/NA	Solid	Total BTEX	
890-4661-3	FS01	Total/NA	Solid	Total BTEX	
890-4661-4	FS02	Total/NA	Solid	Total BTEX	
890-4661-5	FS03	Total/NA	Solid	Total BTEX	
890-4661-6	FS04	Total/NA	Solid	Total BTEX	

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 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

GC VOA (Continued)

Analysis Batch: 53917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-7	BH01	Total/NA	Solid	Total BTEX	
890-4661-8	BH01A	Total/NA	Solid	Total BTEX	
890-4661-9	BH01B	Total/NA	Solid	Total BTEX	
890-4661-10	BH01C	Total/NA	Solid	Total BTEX	

Analysis Batch: 53944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-7	BH01	Total/NA	Solid	8021B	53898
MB 880-53898/5-A	Method Blank	Total/NA	Solid	8021B	53898
MB 880-53946/5-A	Method Blank	Total/NA	Solid	8021B	53946
LCS 880-53898/1-A	Lab Control Sample	Total/NA	Solid	8021B	53898
LCSD 880-53898/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53898
880-28626-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	53898
880-28626-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53898

Prep Batch: 53946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53946/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 53450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Total/NA	Solid	8015B NM	53469
890-4661-2	SW02	Total/NA	Solid	8015B NM	53469
890-4661-3	FS01	Total/NA	Solid	8015B NM	53469
890-4661-4	FS02	Total/NA	Solid	8015B NM	53469
890-4661-5	FS03	Total/NA	Solid	8015B NM	53469
890-4661-6	FS04	Total/NA	Solid	8015B NM	53469
890-4661-7	BH01	Total/NA	Solid	8015B NM	53469
890-4661-8	BH01A	Total/NA	Solid	8015B NM	53469
890-4661-9	BH01B	Total/NA	Solid	8015B NM	53469
890-4661-10	BH01C	Total/NA	Solid	8015B NM	53469
MB 880-53469/1-A	Method Blank	Total/NA	Solid	8015B NM	53469
LCS 880-53469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53469
LCSD 880-53469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53469
890-4659-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53469
890-4659-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53469

Prep Batch: 53469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Total/NA	Solid	8015NM Prep	
890-4661-2	SW02	Total/NA	Solid	8015NM Prep	
890-4661-3	FS01	Total/NA	Solid	8015NM Prep	
890-4661-4	FS02	Total/NA	Solid	8015NM Prep	
890-4661-5	FS03	Total/NA	Solid	8015NM Prep	
890-4661-6	FS04	Total/NA	Solid	8015NM Prep	
890-4661-7	BH01	Total/NA	Solid	8015NM Prep	
890-4661-8	BH01A	Total/NA	Solid	8015NM Prep	
890-4661-9	BH01B	Total/NA	Solid	8015NM Prep	
890-4661-10	BH01C	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-4661-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

GC Semi VOA (Continued)

Prep Batch: 53469 (Continued)

Lab Sample ID MB 880-53469/1-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
LCS 880-53469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4659-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4659-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Total/NA	Solid	8015 NM	
890-4661-2	SW02	Total/NA	Solid	8015 NM	
890-4661-3	FS01	Total/NA	Solid	8015 NM	
890-4661-4	FS02	Total/NA	Solid	8015 NM	
890-4661-5	FS03	Total/NA	Solid	8015 NM	
890-4661-6	FS04	Total/NA	Solid	8015 NM	
890-4661-7	BH01	Total/NA	Solid	8015 NM	
890-4661-8	BH01A	Total/NA	Solid	8015 NM	
890-4661-9	BH01B	Total/NA	Solid	8015 NM	
890-4661-10	BH01C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Soluble	Solid	DI Leach	
890-4661-2	SW02	Soluble	Solid	DI Leach	
890-4661-3	FS01	Soluble	Solid	DI Leach	
890-4661-4	FS02	Soluble	Solid	DI Leach	
890-4661-5	FS03	Soluble	Solid	DI Leach	
890-4661-6	FS04	Soluble	Solid	DI Leach	
890-4661-7	BH01	Soluble	Solid	DI Leach	
890-4661-8	BH01A	Soluble	Solid	DI Leach	
890-4661-9	BH01B	Soluble	Solid	DI Leach	
890-4661-10	BH01C	Soluble	Solid	DI Leach	
MB 880-53473/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53473/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53473/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4661-1 MS	SW01	Soluble	Solid	DI Leach	
890-4661-1 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 53587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4661-1	SW01	Soluble	Solid	300.0	53473
890-4661-2	SW02	Soluble	Solid	300.0	53473
890-4661-3	FS01	Soluble	Solid	300.0	53473
890-4661-4	FS02	Soluble	Solid	300.0	53473
890-4661-5	FS03	Soluble	Solid	300.0	53473
890-4661-6	FS04	Soluble	Solid	300.0	53473
890-4661-7	BH01	Soluble	Solid	300.0	53473
890-4661-8	BH01A	Soluble	Solid	300.0	53473
890-4661-9	BH01B	Soluble	Solid	300.0	53473
890-4661-10	BH01C	Soluble	Solid	300.0	53473

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

HPLC/IC (Continued)

Analysis Batch: 53587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53473/1-A	Method Blank	Soluble	Solid	300.0	53473
LCS 880-53473/2-A	Lab Control Sample	Soluble	Solid	300.0	53473
LCSD 880-53473/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53473
890-4661-1 MS	SW01	Soluble	Solid	300.0	53473
890-4661-1 MSD	SW01	Soluble	Solid	300.0	53473

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Job ID: 890-4661-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: SW01 Lab Sample ID: 890-4661-1

Matrix: Solid

Date Collected: 05/12/23 11:35 Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 01:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:06	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4661-2

Date Collected: 05/12/23 13:20 Matrix: Solid

Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 01:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:22	CH	EET MID

Client Sample ID: FS01 Lab Sample ID: 890-4661-3 Date Collected: 05/12/23 11:30

Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 02:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53473	05/16/23 11:58	KS	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:28	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4661-4

Date Collected: 05/12/23 13:35 Date Received: 05/15/23 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID

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Matrix: Solid

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Matrix: Solid

Released to Imaging: 11/29/2023 3:07:47 PM

Client: Ensolum

Job ID: 890-4661-1

Project/Site: Ross Draw 3031 SDG: 03C1558139

Lab Sample ID: 890-4661-4

Matrix: Solid

Date Collected: 05/12/23 13:35 Date Received: 05/15/23 09:36

Client Sample ID: FS02

	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			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:33	СН	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-4661-5

Date Collected: 05/12/23 13:40 **Matrix: Solid** Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 02:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:38	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4661-6

Date Collected: 05/12/23 13:45 **Matrix: Solid** Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 22:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 03:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 02:55	CH	EET MID

Client Sample ID: BH01 Lab Sample ID: 890-4661-7

Date Collected: 05/12/23 08:15 **Matrix: Solid** Date Received: 05/15/23 09:36

_	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	53898	05/22/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	53944	05/23/23 22:39	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 22:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID

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Released to Imaging: 11/29/2023 3:07:47 PM

Matrix: Solid

Client: Ensolum Job ID: 890-4661-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: BH01 Lab Sample ID: 890-4661-7

Date Collected: 05/12/23 08:15 Matrix: Solid Date Received: 05/15/23 09:36

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
	Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 03:36	SM	EET MID
	Soluble	Leach	DI Leach			5.04 g	50 mL	53473	05/16/23 11:58	KS	EET MID
L	Soluble	Analysis	300.0		1	50 mL	50 mL	53587	05/18/23 03:00	CH	EET MID

Client Sample ID: BH01A Lab Sample ID: 890-4661-8

Date Collected: 05/12/23 08:20 Date Received: 05/15/23 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53587	05/18/23 03:05	CH	EET MID

Lab Sample ID: 890-4661-9 **Client Sample ID: BH01B**

Date Collected: 05/12/23 08:25

Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 04:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53587	05/18/23 03:11	CH	EET MID

Client Sample ID: BH01C Lab Sample ID: 890-4661-10 Date Collected: 05/12/23 08:50

Date Received: 05/15/23 09:36

	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	53606	05/17/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/19/23 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53917	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53596	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 04:41	SM	EET MID

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Matrix: Solid

Lab Chronicle

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Client Sample ID: BH01C Lab Sample ID: 890-4661-10

Date Collected: 05/12/23 08:50

Date Received: 05/15/23 09:36

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	53473	05/16/23 11:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53587	05/18/23 08:47	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4661-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of	· '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	D M () 1	N.A Audio			
Alialysis Melliou	Prep Method	Matrix	Analyte		
8015 NM	Ргер Метпоа	Solid	Analyte Total TPH		

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Method Summary

Job ID: 890-4661-1 Client: Ensolum Project/Site: Ross Draw 3031

SDG: 03C1558139

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

Client Sample ID

SW01

SW02

FS01

FS02

FS03

FS04

BH01

BH01A

BH01B

BH01C

Sample Summary

Collected

05/12/23 11:35

05/12/23 13:20

05/12/23 11:30

05/12/23 13:35

05/12/23 13:40

05/12/23 13:45

05/12/23 08:15

05/12/23 08:20

05/12/23 08:25

05/12/23 08:50

Received 05/15/23 09:36

05/15/23 09:36

05/15/23 09:36

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0.5'

1.0'

2.0'

3.0'

Matrix

Solid

Client: Ensolum

Lab Sample ID

890-4661-1

890-4661-2

890-4661-3

890-4661-4

890-4661-5

890-4661-6

890-4661-7

890-4661-8

890-4661-9

890-4661-10

Project/Site: Ross Draw 3031

Job ID: 890-4661-1

SDG: 03C1558139

Depth				
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0-2'				
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2'				
2'				
2'				

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Company Name: FUZUIMWITE acoma Morris Xenco **Environment Testing** Company Name: Bill to: (if different) 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 Chain of Custody XTO Enorgy Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Work Order No: www.xenco.com Work Order Comments

Revised Date: 08/25/2020 Rev 2020 2							
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		2	5/15/13.8:000	5/1:	3470	1	EMAN IIII
ature) Date∕Time	e) Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	nature)	Relinquished by: (Signature)
	nd conditions d the control reviously negotiated.	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.	ns Xenco, its affiliates and s es incurred by the client if s rofins Xenco, but not analy	from client company to Eurol bility for any losses or expen- each sample submitted to E	les constitutes a valld purchase order ples and shall not assume any respons to each project and a charge of \$5 fo	and relinquishment of samp able only for the cost of samp ge of \$85.00 will be applied	service. Eurofins Xenco will be I
Hg: 1631 / 245.1 / 74/0 / /4/1		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	o As Ba Be Cd C	.P 6010 : 8RCRA S	alyzed TCLP/SPI	Metal(s) to be ana	Circle Method(s) and Metal(s) to be analyzed
a Sr Tl Sn U V Zn	li K Se	Ca Cr Co Cu Fe Pb Mg N	Al Sb As Ba Be B Cd Ca	Texas 11 Al Sb	8RCRA 13PPM Texas 11	200.8 / 6020:	Total 200.7 / 6010
			4	3016 4	8:50	8	BH01C
			¥	¢,	8:25		BHOJB
tmorrissinge instrum. com				1.0 6	8:20		BHOIA
				0.5 6	8:15		BH01
NAPP2300442748				2' C	13:45		FSO4
nAPP2227244441				2' C	13:40		FS03
incident #:				2' C	13.35		F502
				2' C	11:30		FS01
30-015-45121)-21 C 1	1 13:20		SW02
API:			××	7-21 6 1	05 223 11:35	S	SWOI
Sample Comments			Cr TI B7	Depth Grab/ # of Cont	Date Time Sampled Sampled	on Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC		-	H	2.0	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	ody	890-4661 Chain of Custody		ناؤا	Temperature Reading:	Yes No NA	Sample Custody Seals:
Na ₂ S ₂ O ₃ ; NaSO ₃			d	C C	Correction Factor:	Yes No RIA	Cooler Custody Seals:
NaHSO 4: NABIS			es	NZ-001	Thermometer ID:	(es) No	Samples Received Intact:
H ₃ PO ₄ : HP				Yes No	Yes No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na					the lab, if received by 4:30pm		PO #:
HCL: HC HNO 3: HN	_			ay received by	DC 1 TAT starts the day received by	ariana 0'E	Sampler's Name:
Cool: Cool MeOH: Me				5d aus	03.91531 Due Date:	00075,-103	Project Location: 32
None: NO DI Water: H ₂ O				Rush Code	A Routine	13C 1558139	ber:
Preservative Codes	57	ANALYSIS REQUEST			3031 Turn Around	POSS DRAW 3031	Project Name: 2
ADaPT Other:	Deliverables: EDD	polle (am	Green@ Exxon Mibbile	Garrett Gree	Email:	103194364	Phone:
Reporting: Level II Level III PST/UST TRRP Level IV	Reporting: Level II Level III	NM 88220	Carlabad,	City, State ZIP:	98220	AVISBAC, NM	City, State ZIP:
	State of Project:	YERRO ST.	3104 E.G	Address:	ParksHwu	22 National	Address: 3
Brownfields RRC Superfund	Program: UST/PST PRP	erdy	XTO En	Company Name:	J. J.	n column, L	Company Name:

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Circle Method(s) and Me

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5/15/23 8: Dan

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		eurofins
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

roject Number: 03C 155 8139 roject Location: 32.00015, -103 91531	-	Routine Rush	Pres.			None: NO DI Water: H ₂ O
		7				
	_	Due Date: '그 여러니S				Cool: Cool MeOH: Me
		TAT starts the day received by				HCL: HC HNO 3: HN
		the lab, if received by 4:30pm	>			H ₂ SO ₄ : H ₂ NaOH: Na
AMPLE RECEIPT Temp Blank:	: Yes No	Weste: Yes No	eters			H ₃ PO ₄ : HP
tact:	Thermometers:	(A)	ram	25		NaHSO 4: NABIS
ooler Custody Seals: Yes No N/A		actor:	Pa			Na ₂ S ₂ O ₃ : NaSO ₃
ample Custody Seals: Yes No N/A	A Temperature Reading:	e Reading:				Zn Acetate+NaOH: Zn
otal Containers:	Corrected Temperature:	emperature:		TE		NaOH+Ascorbic Acid: SAPC
Sample Identification Mai	Matrix Date Sampled	Time Depth Grab/	# of Cont	CY TP B		Sample Comments
BH01D S	05/12/23 8:55	8:55 3.5' 6	-	X X X DUIT ON	haid *	API: 30-015-45121
			1			ingident#;
						MAPP 222 7244441
						NAPP2300442_748
						tryby issey c ensoum.com
Total 200.7 / 6010 200.8 / 6020: ircle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11 Al TCLP / SPLP 6010 : 8RCR/	AS AS	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo NTCLP / SPLP 6010:8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	li K Se	Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
ature of this document and relinquishment of surofins Xenco will be liable only for the cost of	samples constitutes a v	ralid purchase order from client company assume any responsibility for any losses or	expenses	nitice. 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	rd terms and conditions nces beyond the control	
Relinquished by: (Signature)	Received b	Received by: (Signature)		Date/Time Relinquished by: (Signature)	gnature) Received by: (Signature)	(Signature) Date/Time

SAMPLE RECEIPT

Sampler's Name:

Cooler Custody Seals:

Total Containers:

Project Number:

Address:

Company Name: Project Manager:

accoma Morrisseu

Bill to: (if different) Company Name:

Darrett Green Energy prezne 3

City, State ZIP:

NM 88220

98220

Reporting: Level III Level III PST/UST TRRP

Level IV

UST/PST PRPBBrownfields

RRC

Superfund [

Work Order Comments

www.xenco.com

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State of Project: Program:

PAIKS HWU

Work Order No:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4661-1

SDG Number: 03C1558139

Login Number: 4661 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	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4661-1 SDG Number: 03C1558139

Login Number: 4661
List Source: Eurofins Midland
List Number: 2
List Creation: 05/16/23 10:43 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 <6mm (1/4").	N/A	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/22/2023 4:58:12 PM

JOB DESCRIPTION

Ross Draw 3031 SDG NUMBER 03C1558139

JOB NUMBER

890-4670-1

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

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Client: Ensolum
Project/Site: Ross Draw 3031
Laboratory Job ID: 890-4670-1
SDG: 03C1558139

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Definitions/Glossary

Job ID: 890-4670-1 Client: Ensolum Project/Site: Ross Draw 3031

SDG: 03C1558139

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description** U

Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

DLC

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

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

EDL Estimated Detection Limit (Dioxin) LOD

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

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

Decision Level Concentration (Radiochemistry)

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

NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Released to Imaging: 11/29/2023 3:07:47 PM

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4670-1

SDG: 03C1558139

Job ID: 890-4670-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4670-1

Receipt

The samples were received on 5/16/2023 10:47 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 1.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS05 (890-4670-1), SW03 (890-4670-2), SW04 (890-4670-3), FS06 (890-4670-4), SW05 (890-4670-5) and SW06 (890-4670-6).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW03 (890-4670-2), SW05 (890-4670-5) and (CCV 880-53724/52). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4678-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW04 (890-4670-3). 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 surrogate recovery for the blank associated with preparation batch 880-53601 and analytical batch 880-53548 was outside the upper control limits.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53630 and analytical batch 880-53625 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-28483-A-33-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SW06 (890-4670-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53630 and analytical batch 880-53625 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.

HPLC/IC

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

Lab Sample ID: 890-4670-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Client Sample ID: FS05

Date Collected: 05/15/23 12:55 Date Received: 05/16/23 10:47

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/19/23 11:17	05/20/23 03:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/19/23 11:17	05/20/23 03:22	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 15:52	1
Method: SW846 8015 NM - Diese	el Range Organ	ice (DRO) ((2C\					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/18/23 09:29	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U	50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			05/18/23 09:29	1
Analyte	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	05/18/23 09:29 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/17/23 12:38	05/18/23 09:29 Analyzed 05/17/23 21:09	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:38 05/17/23 12:38	05/18/23 09:29 Analyzed 05/17/23 21:09 05/17/23 21:09	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:38 05/17/23 12:38	05/18/23 09:29 Analyzed 05/17/23 21:09 05/17/23 21:09	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:38 05/17/23 12:38 05/17/23 12:38 Prepared	Analyzed 05/17/23 21:09 05/17/23 21:09 05/17/23 21:09 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:38 05/17/23 12:38 05/17/23 12:38 Prepared 05/17/23 12:38	05/18/23 09:29 Analyzed 05/17/23 21:09 05/17/23 21:09 Analyzed 05/17/23 21:09	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:38 05/17/23 12:38 05/17/23 12:38 Prepared 05/17/23 12:38	05/18/23 09:29 Analyzed 05/17/23 21:09 05/17/23 21:09 Analyzed 05/17/23 21:09	1 1 1 Dil Fac 1

Client Sample ID: SW03 Lab Sample ID: 890-4670-2

Date Collected: 05/15/23 13:00 Date Received: 05/16/23 10:47

Sample Depth: 0-3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			05/19/23 11:17	05/20/23 03:43	1

Eurofins Carlsbad

Matrix: Solid

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Job ID: 890-4670-1

Client: Ensolum SDG: 03C1558139 Project/Site: Ross Draw 3031

Client Sample ID: SW03 Lab Sample ID: 890-4670-2 Matrix: Solid

Date Collected: 05/15/23 13:00 Date Received: 05/16/23 10:47 Sample Depth: 0-3'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	81	70 - 130	05/19/23 11:17	05/20/23 03:43	

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			05/22/23 15:52	1

Γ							
Method: SW846 8015 NM - Diesel Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	404	50.0	mg/Kg			05/18/23 09:29	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 22:12	1
Diesel Range Organics (Over C10-C28)	404		50.0	mg/Kg		05/17/23 12:38	05/17/23 22:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	05/17/23 12:38	05/17/23 22:12	1
o-Terphenyl	91	7	70 - 130	05/17/23 12:38	05/17/23 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	123	5.03	mg/Kg			05/19/23 01:44	1	

Client Sample ID: SW04 Lab Sample ID: 890-4670-3

Date Collected: 05/15/23 13:05 Date Received: 05/16/23 10:47

Sample Depth: 0-3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/19/23 11:17	05/20/23 04:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/19/23 11:17	05/20/23 04:03	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			05/19/23 11:17	05/20/23 04:03	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399	ma/Ka			05/22/23 15:52	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/22/23 15:52	1
Г., .,	_							

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 05/18/23 09:29

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Matrix: Solid

Lab Sample ID: 890-4670-3

Client Sample Results

Client: Ensolum Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: SW04

Date Collected: 05/15/23 13:05 Date Received: 05/16/23 10:47

Sample Depth: 0-3'

Method: SW846 8015B NM - Dies	sel Range Orga	inics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/17/23 12:38	05/17/23 22:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/17/23 12:38	05/17/23 22:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:38	05/17/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			05/17/23 12:38	05/17/23 22:33	1
o-Terphenyl	82		70 - 130			05/17/23 12:38	05/17/23 22:33	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.02	mg/Kg			05/19/23 01:50	1

Client Sample ID: FS06 Lab Sample ID: 890-4670-4 Date Collected: 05/15/23 13:55 Matrix: Solid

Date Received: 05/16/23 10:47

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/19/23 11:17	05/20/23 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/19/23 11:17	05/20/23 04:24	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/19/23 11:17	05/20/23 04:24	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/22/23 15:52	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.6		49.9	mg/Kg			05/18/23 09:29	1
=								
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
		nics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 05/17/23 12:38	Analyzed 05/17/23 22:55	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	RL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u> </u>	05/17/23 12:38	05/17/23 22:55	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 52.6	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	05/17/23 12:38 05/17/23 12:38	05/17/23 22:55 05/17/23 22:55	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 52.6 <49.9	Qualifier U	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	05/17/23 12:38 05/17/23 12:38 05/17/23 12:38	05/17/23 22:55 05/17/23 22:55 05/17/23 22:55	1 1

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5/22/2023

Lab Sample ID: 890-4670-4

Client Sample Results

Client: Ensolum Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: FS06

Date Collected: 05/15/23 13:55 Date Received: 05/16/23 10:47

Sample Depth: 3'

	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
L	Chloride	63.9		4.99	mg/Kg			05/19/23 01:55	1	

Lab Sample ID: 890-4670-5 **Client Sample ID: SW05** Matrix: Solid

Date Collected: 05/15/23 14:10 Date Received: 05/16/23 10:47

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Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 04:44	
Toluene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 04:44	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 04:44	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 04:44	
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 04:44	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 04:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			05/19/23 11:17	05/20/23 04:44	
1,4-Difluorobenzene (Surr)	70		70 - 130			05/19/23 11:17	05/20/23 04:44	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 15:52	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			05/18/23 09:29	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 23:16	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 23:16	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 23:16	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130			05/17/23 12:38	05/17/23 23:16	
o-Terphenyl	105		70 - 130			05/17/23 12:38	05/17/23 23:16	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
•								

Lab Sample ID: 890-4670-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Client Sample ID: SW06

Date Collected: 05/15/23 14:15 Date Received: 05/16/23 10:47

Sample Depth: 0-3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 11:17	05/20/23 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130			05/19/23 11:17	05/20/23 05:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130			05/19/23 11:17	05/20/23 05:04	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 15:52	1
Method: SW846 8015 NM - Diese	l Pange Organ	ice (DBO) (ec)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg	— <u>-</u>		05/19/23 10:11	1
- -								
Method: SW846 8015B NM - Dies			• •					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/23 08:49	05/18/23 19:45	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/18/23 08:49	05/18/23 19:45	1
C10-C28)	-50.0		50.0	0.4		05/40/00 00 40	05/40/00 40 45	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/23 08:49	05/18/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			05/18/23 08:49	05/18/23 19:45	1
o-Terphenyl	103		70 - 130			05/18/23 08:49	05/18/23 19:45	1
Method: EPA 300.0 - Anions, Ion	• •	•	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.3		5.00	mg/Kg			05/19/23 02:06	1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

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)	
880-28389-A-7-B MB	Method Blank	71	80	
890-4670-1	FS05	109	93	
890-4670-2	SW03	147 S1+	81	
890-4670-3	SW04	109	69 S1-	
890-4670-4	FS06	109	80	
890-4670-5	SW05	106	70	
890-4670-6	SW06	116	106	
890-4678-A-1-A MS	Matrix Spike	125	109	
890-4678-A-1-B MSD	Matrix Spike Duplicate	135 S1+	109	
LCS 880-53768/1-A	Lab Control Sample	123	110	
LCSD 880-53768/2-A	Lab Control Sample Dup	123	104	
LOOD 000 001 00/L / (90	100	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Accept
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-28483-A-33-C MS	Matrix Spike	124	85	
880-28483-A-33-D MSD	Matrix Spike Duplicate	127	86	
90-4670-1	FS05	98	101	
90-4670-1 MS	FS05	88	81	
390-4670-1 MSD	FS05	87	80	
390-4670-2	SW03	89	91	
390-4670-3	SW04	84	82	
390-4670-4	FS06	92	97	
390-4670-5	SW05	100	105	
390-4670-6	SW06	134 S1+	103	
CS 880-53601/2-A	Lab Control Sample	86	79	
CS 880-53630/2-A	Lab Control Sample	100	77	
CSD 880-53601/3-A	Lab Control Sample Dup	86	84	
CSD 880-53630/3-A	Lab Control Sample Dup	100	76	
MB 880-53601/1-A	Method Blank	133 S1+	125	
MB 880-53630/1-A	Method Blank	214 S1+	171 S1+	

Surroyate Legenu

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4670-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-28389-A-7-B MB

Matrix: Solid Analysis Batch: 53724 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53707

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/23 08:45	05/19/23 19:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/23 08:45	05/19/23 19:52	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/23 08:45	05/19/23 19:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/19/23 08:45	05/19/23 19:52	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/23 08:45	05/19/23 19:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/19/23 08:45	05/19/23 19:52	,

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	05/19/23 08:4	05/19/23 19:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/19/23 08:4	15 05/19/23 19:52	1

Lab Sample ID: MB 880-53768/5-A

Matrix: Solid

Analysis Batch: 53724

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53768

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 05/19/23 11:17 05/19/23 22:14 Toluene <0.00200 U 0.00200 mg/Kg 05/19/23 11:17 05/19/23 22:14 Ethylbenzene <0.00200 U 0.00200 mg/Kg 05/19/23 11:17 05/19/23 22:14 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 05/19/23 11:17 05/19/23 22:14 <0.00200 U o-Xylene 0.00200 mg/Kg 05/19/23 11:17 05/19/23 22:14 Xylenes, Total <0.00400 U 0.00400 05/19/23 11:17 05/19/23 22:14 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/19/23 11:17	05/19/23 22:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/19/23 11:17	05/19/23 22:14	1

Lab Sample ID: LCS 880-53768/1-A

Matrix: Solid

Analysis Batch: 53724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 53768

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1107 mg/Kg 111 70 - 130 Toluene 0.100 0.1048 mg/Kg 105 70 - 130 Ethylbenzene 0.100 0.1141 mg/Kg 114 70 - 130 0.200 m-Xylene & p-Xylene 0.2436 mg/Kg 122 70 - 130 70 - 130 0.100 o-Xylene 0.1244 mg/Kg 124

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: LCSD 880-53768/2-A

Matrix: Solid

Analysis Batch: 53724

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53768

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	8	35

QC Sample Results

Client: Ensolum Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

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

Lab Sample ID: LCSD 880-53768/2-A

Matrix: Solid Analysis Batch: 53724 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 53768

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09553 96 70 - 130 35 mg/Kg 9 Ethylbenzene 0.100 0.1061 mg/Kg 106 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2225 mg/Kg 111 70 - 130 35 g o-Xylene 0.100 0.1143 mg/Kg 114 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4678-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53724

Prep Type: Total/NA

Prep Batch: 53768

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0998 <0.00198 0.1115 mg/Kg 112 70 - 130 Toluene <0.00198 U 0.0998 0.1042 104 70 - 130 mg/Kg Ethylbenzene <0.00198 U 0.0998 0.1175 70 - 130 mg/Kg 118 0.200 m-Xylene & p-Xylene <0.00396 U 0.2478 124 70 - 130 mg/Kg o-Xylene <0.00198 U 0.0998 0.1252 mg/Kg 125 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	125	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 890-4678-A-1-B MSD

Matrix: Solid

Analysis Batch: 53724

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53768

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.1037		mg/Kg		103	70 - 130	7	35
Toluene	<0.00198	U	0.100	0.1016		mg/Kg		101	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.1174		mg/Kg		117	70 - 130	0	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2503		mg/Kg		125	70 - 130	1	35
o-Xylene	<0.00198	U	0.100	0.1270		mg/Kg		127	70 - 130	1	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-53601/1-A

Matrix: Solid

Analysis Batch: 53548

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

Prep Batch: 53601

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 05/17/23 12:38 05/17/23 20:05 Gasoline Range Organics

(GRO)-C6-C10

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

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

Lab Sample ID: MB 880-53601/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 53548	Prep Batch: 53601
11D 11D	

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 20:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:38	05/17/23 20:05	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			05/17/23 12:38	05/17/23 20:05	1
o-Terphenyl	125		70 - 130			05/17/23 12:38	05/17/23 20:05	1

_										
Lab Sample ID: LCS 880-53	8601/2-A						Client	Sample	ID: Lab Contr	ol Sample
Matrix: Solid									Prep Type	: Total/NA
Analysis Batch: 53548									Prep Ba	tch: 53601
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	828.8		mg/Kg		83	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	933.7		mg/Kg		93	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	86		70 - 130							
o-Terphenyl	79		70 - 130							

ab Sample ID: LCSD 880-53601/3-A Clien							
				Prep 1	ype: To	tal/NA	
				Prep	Batch:	53601	
ike LCSI	LCSD			%Rec		RPD	
led Resul	t Qualifier	Unit D	%Rec	Limits	RPD	Limit	
000 867.1	1	mg/Kg	87	70 - 130	5	20	
)00 1030)	mg/Kg	103	70 - 130	10	20	
C	ded Result 000 867.7	ded Result Qualifier 867.1	bike LCSD LCSD ded Result Qualifier Unit E 000 867.1 mg/Kg	bike LCSD LCSD ded Result Qualifier Unit D %Rec 000 867.1 mg/Kg 87	Prep T Prep Prep	ded 000 Result 867.1 Qualifier mg/Kg Unit mg/Kg D 87 70 - 130 RPD 70 - 130 5	

	LCSD				
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	86		70 - 130		
o-Terphenyl	84		70 - 130		

Lab Sample ID: 890-4670-1 MS Matrix: Solid Analysis Batch: 53548									Prep ⁻	mple ID: FS05 Type: Total/NA Batch: 53601
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	876.3		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	845.8		mg/Kg		83	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	88		70 - 130							
o-Terphenyl	81		70 - 130							

QC Sample Results

Client: Ensolum Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

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

Lab Sample ID: 890-4670-1 MSD

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: FS05

Prep Type: Total/NA Prep Batch: 53601

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 997 865.4 mg/Kg 85 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 841.9 mg/Kg 83 70 - 130 0

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C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 87 o-Terphenyl 80 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53630

Lab Sample ID: MB 880-53630/1-A

Matrix: Solid

Analysis Batch: 53625

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 214 S1+ 70 - 130 05/18/23 08:00 05/18/23 08:37 o-Terphenyl 171 S1+ 70 - 130 05/18/23 08:00 05/18/23 08:37

Lab Sample ID: LCS 880-53630/2-A

Matrix: Solid

Analysis Batch: 53625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53630

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	824.0		mg/Kg		82	70 - 130	 -	
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	854.6		mg/Kg		85	70 - 130		
C10-C28)									

LCS LCS

Surrogate	%Recovery G	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	77		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-53630/3-A

Analysis Batch: 53625

Prep Type: Total/NA Prep Batch: 53630

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	825.3		mg/Kg		83	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	803.9		mg/Kg		80	70 - 130	6	20
C10-C28)									

Job ID: 890-4670-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

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

LCSD LCSD

Lab Sample ID: LCSD 880-53630/3-A

Matrix: Solid

Analysis Batch: 53625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53630

Surrogate %Recovery Qualifier

Limits 1-Chlorooctane 100 70 - 130 o-Terphenyl 76 70 - 130

Lab Sample ID: 880-28483-A-33-C MS Client Sample ID: Matrix Spike

Analysis Batch: 53625

Matrix: Solid Prep Type: Total/NA

Prep Batch: 53630

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U F1 999 1643 F1 165 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 939.9 83 108 mg/Kg 70 - 130C10-C28)

> MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 124 85 70 - 130 o-Terphenyl

Lab Sample ID: 880-28483-A-33-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53625

Prep Type: Total/NA

Prep Batch: 53630

MSD MSD RPD Sample Sample Spike Analyte Result Qualifier hahhA Result Qualifier Unit I imits RPD Limit D %Rec Gasoline Range Organics <50.0 U F1 999 1673 F1 mg/Kg 167 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 108 999 953.5 mg/Kg 85 70 - 130 20 C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 127 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53569/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53680

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/18/23 23:30

Lab Sample ID: LCS 880-53569/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53680

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Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits Chloride 250 242.9 mg/Kg 90 - 110

QC Sample Results

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-53569/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 53680

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.6 mg/Kg 97 90 - 110 20

Lab Sample ID: 880-28520-A-3-B MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53680

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 84.9 252 332.6 mg/Kg 98 90 - 110

Lab Sample ID: 880-28520-A-3-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53680

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 84.9 252 333.3 90 - 110 20 mg/Kg

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Client: Ensolum

Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

GC VOA

Prep Batch: 53707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28389-A-7-B MB	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 53724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Total/NA	Solid	8021B	53768
890-4670-2	SW03	Total/NA	Solid	8021B	53768
890-4670-3	SW04	Total/NA	Solid	8021B	53768
890-4670-4	FS06	Total/NA	Solid	8021B	53768
890-4670-5	SW05	Total/NA	Solid	8021B	53768
890-4670-6	SW06	Total/NA	Solid	8021B	53768
880-28389-A-7-B MB	Method Blank	Total/NA	Solid	8021B	53707
MB 880-53768/5-A	Method Blank	Total/NA	Solid	8021B	53768
LCS 880-53768/1-A	Lab Control Sample	Total/NA	Solid	8021B	53768
LCSD 880-53768/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53768
890-4678-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	53768
890-4678-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53768

Prep Batch: 53768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Total/NA	Solid	5035	
890-4670-2	SW03	Total/NA	Solid	5035	
890-4670-3	SW04	Total/NA	Solid	5035	
890-4670-4	FS06	Total/NA	Solid	5035	
890-4670-5	SW05	Total/NA	Solid	5035	
890-4670-6	SW06	Total/NA	Solid	5035	
MB 880-53768/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53768/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53768/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4678-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4678-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Total/NA	Solid	Total BTEX	
890-4670-2	SW03	Total/NA	Solid	Total BTEX	
890-4670-3	SW04	Total/NA	Solid	Total BTEX	
890-4670-4	FS06	Total/NA	Solid	Total BTEX	
890-4670-5	SW05	Total/NA	Solid	Total BTEX	
890-4670-6	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Total/NA	Solid	8015B NM	53601
890-4670-2	SW03	Total/NA	Solid	8015B NM	53601
890-4670-3	SW04	Total/NA	Solid	8015B NM	53601
890-4670-4	FS06	Total/NA	Solid	8015B NM	53601
890-4670-5	SW05	Total/NA	Solid	8015B NM	53601
MB 880-53601/1-A	Method Blank	Total/NA	Solid	8015B NM	53601
LCS 880-53601/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53601

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 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

GC Semi VOA (Continued)

Analysis Batch: 53548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-53601/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53601
890-4670-1 MS	FS05	Total/NA	Solid	8015B NM	53601
890-4670-1 MSD	FS05	Total/NA	Solid	8015B NM	53601

Prep Batch: 53601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Total/NA	Solid	8015NM Prep	
890-4670-2	SW03	Total/NA	Solid	8015NM Prep	
890-4670-3	SW04	Total/NA	Solid	8015NM Prep	
890-4670-4	FS06	Total/NA	Solid	8015NM Prep	
890-4670-5	SW05	Total/NA	Solid	8015NM Prep	
MB 880-53601/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53601/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53601/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4670-1 MS	FS05	Total/NA	Solid	8015NM Prep	
890-4670-1 MSD	FS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-6	SW06	Total/NA	Solid	8015B NM	53630
MB 880-53630/1-A	Method Blank	Total/NA	Solid	8015B NM	53630
LCS 880-53630/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53630
LCSD 880-53630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53630
880-28483-A-33-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53630
880-28483-A-33-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53630

Prep Batch: 53630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-6	SW06	Total/NA	Solid	8015NM Prep	
MB 880-53630/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53630/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28483-A-33-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28483-A-33-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4670-1	FS05	Total/NA	Solid	8015 NM	
890-4670-2	SW03	Total/NA	Solid	8015 NM	
890-4670-3	SW04	Total/NA	Solid	8015 NM	
890-4670-4	FS06	Total/NA	Solid	8015 NM	
890-4670-5	SW05	Total/NA	Solid	8015 NM	
890-4670-6	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Soluble	Solid	DI Leach	
890-4670-2	SW03	Soluble	Solid	DI Leach	
890-4670-3	SW04	Soluble	Solid	DI Leach	

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 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

HPLC/IC (Continued)

Leach Batch: 53569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-4	FS06	Soluble	Solid	DI Leach	
890-4670-5	SW05	Soluble	Solid	DI Leach	
890-4670-6	SW06	Soluble	Solid	DI Leach	
MB 880-53569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28520-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28520-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4670-1	FS05	Soluble	Solid	300.0	53569
890-4670-2	SW03	Soluble	Solid	300.0	53569
890-4670-3	SW04	Soluble	Solid	300.0	53569
890-4670-4	FS06	Soluble	Solid	300.0	53569
890-4670-5	SW05	Soluble	Solid	300.0	53569
890-4670-6	SW06	Soluble	Solid	300.0	53569
MB 880-53569/1-A	Method Blank	Soluble	Solid	300.0	53569
LCS 880-53569/2-A	Lab Control Sample	Soluble	Solid	300.0	53569
LCSD 880-53569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53569
880-28520-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	53569
880-28520-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53569

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Client: Ensolum

Job ID: 890-4670-1 Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: FS05 Lab Sample ID: 890-4670-1 Date Collected: 05/15/23 12:55 Matrix: Solid

Date Received: 05/16/23 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53768	05/19/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 03:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53913	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53650	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53601	05/17/23 12:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53569	05/17/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1			53680	05/19/23 01:39	CH	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-4670-2

Date Collected: 05/15/23 13:00 Matrix: Solid

Date Received: 05/16/23 10:47

	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	53768	05/19/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 03:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53913	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53650	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53601	05/17/23 12:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 22:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53569	05/17/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1			53680	05/19/23 01:44	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-4670-3 Date Collected: 05/15/23 13:05

Date Received: 05/16/23 10:47

	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	53768	05/19/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53913	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53650	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53601	05/17/23 12:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53569	05/17/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1			53680	05/19/23 01:50	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4670-4

Date Collected: 05/15/23 13:55 Date Received: 05/16/23 10:47

	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	53768	05/19/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 04:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53913	05/22/23 15:52	SM	EET MID

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Matrix: Solid

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Matrix: Solid

Job ID: 890-4670-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 03C1558139

Client Sample ID: FS06

Date Collected: 05/15/23 13:55 Date Received: 05/16/23 10:47

Lab Sample ID: 890-4670-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53650	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53601	05/17/23 12:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53569	05/17/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1			53680	05/19/23 01:55	CH	EET MID

Client Sample ID: SW05 Lab Sample ID: 890-4670-5

Date Collected: 05/15/23 14:10 Date Received: 05/16/23 10:47

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.02 g 5 mL 53768 05/19/23 11:17 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 53724 05/20/23 04:44 MNR EET MID 1 Total/NA Total BTEX 53913 05/22/23 15:52 **EET MID** Analysis 1 SM Total/NA Analysis 8015 NM 53650 05/18/23 09:29 SM EET MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 53601 05/17/23 12:38 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 53548 05/17/23 23:16 SM **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 53569 05/17/23 10:18 KS EET MID Soluble Analysis 300.0 1 53680 05/19/23 02:00 СН **EET MID**

Client Sample ID: SW06 Lab Sample ID: 890-4670-6

Date Collected: 05/15/23 14:15 Date Received: 05/16/23 10:47

	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	53768	05/19/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53913	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53650	05/19/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53630	05/18/23 08:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53625	05/18/23 19:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53569	05/17/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1			53680	05/19/23 02:06	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for	
the agency does not of	fer certification.	•	, , ,	.,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,	
0 ,		Matrix Solid	Analyte Total TPH		

Released to Imaging: 11/29/2023 3:07:47 PM

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Method Summary

 Client: Ensolum
 Job ID: 890-4670-1

 Project/Site: Ross Draw 3031
 SDG: 03C1558139

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4670-1

SDG: 03C1558139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4670-1	FS05	Solid	05/15/23 12:55	05/16/23 10:47	3'
890-4670-2	SW03	Solid	05/15/23 13:00	05/16/23 10:47	0-3'
890-4670-3	SW04	Solid	05/15/23 13:05	05/16/23 10:47	0-3'
890-4670-4	FS06	Solid	05/15/23 13:55	05/16/23 10:47	3'
890-4670-5	SW05	Solid	05/15/23 14:10	05/16/23 10:47	0-3'
890-4670-6	SW06	Solid	05/15/23 14:15	05/16/23 10:47	0-3'

Relinquished by: (Signature)

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Co

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 clien otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates

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:

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.1

5/16/23 5/16/23 10:40

1047

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eurofins Xenco **Environment Testing**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 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

www.xenco.com Page 1 of 1	
Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
roje	
Reporting: Level II Level III PST/UST TRRP Level IV	
Deliverables: EDD ADaPT Other:	
ANALYSIS REQUEST Preservative Codes	
None: NO DI Water: H ₂ O	
Caal: Caal MeOH: Me	
HCL: HC HNO 3: HN	
H ₂ SO ₄ : H ₂ NaOH: Na	
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
	f 28
Sample Comments	e 26
Inviction #'S:	⊃ag
NAPP 22272 HUHUNA	F
NAPP 2300442748	
ADI:	
30-015-H5121	
+ morrissaugensoum	(OM)
	2 • 07 ·
K Se Ag SiO, Na Sr Tl Sn U V	72:
Hg: 1631 / 245.1 / 7470 / 74	/20
ates and subcontractors. It assigns standard terms and conditions client if such losses are due to circumstances beyond the control	1/29
not analyzed. These terms will be enforced unless previously negotiated.	o• i
	PST/ Dapt [Comm

SAMPLE RECEIPT

Temp Blank: Te e

Yes No

Wet Ice:

(Yes No

Parameters

No

Thermometer ID:

mm-De

Sample Custody Seals: Cooler Custody Seals: amples Received Intact:

Yes No

N/A

Temperature Reading: Correction Factor:

Corrected Temperature:

Yes No

Sample Identification

Matrix

Sampled

Time

Depth

Comp Grab/

Cont # of

Date

3.00 30:05

FS05

FSOLO

50MS

6

4:100-3 という

上にい

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HOM S SW03 Sampler's Name: Project Location: Project Number:

Mariana C'Dell 32.00075 - 103.91531

1558139

Routine

Rush

Code

Turn Around

Due Date:

5days

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

DRAW 3031

Project Name:

City, State ZIP: Address:

ALISOAC, NM 98270

7031943104

Email:

Garrett

(>1 een @

City, State ZIP:

Company Name: Bill to: (if different)

31014 E

911B

odrre

122 National Parks HWY Address:

ompany Name

Ensolum, LLC

roject Manager:

lacoma

MUNISSEL

Work Order No:

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4670-1

 SDG Number: 03C1558139

Login Number: 4670 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	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4670-1 SDG Number: 03C1558139

Login Number: 4670 **List Source: Eurofins Midland** List Number: 2

List Creation: 05/17/23 10:46 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: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/23/2023 10:34:49 AM

JOB DESCRIPTION

ROSS DRAW 3031 SDG NUMBER 32.00075,-103.91531

JOB NUMBER

890-4682-1

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 5/23/2023 10:34:49 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 5/23/2023

Released to Imaging: 11/29/2023 3:07:47 PM

Client: Ensolum
Project/Site: ROSS DRAW 3031

Labora
SD0

Laboratory Job ID: 890-4682-1 SDG: 32.00075,-103.91531

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Definitions/Glossary

Job ID: 890-4682-1 Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI 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 **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-4682-1

Case Narrative

Client: Ensolum

Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Job ID: 890-4682-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4682-1

Receipt

The samples were received on 5/18/2023 9:35 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 4.0° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH02 (890-4682-1) and BH02A (890-4682-2).

GC VOA

Method 8021B: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 880-53609 and analytical batch 880-53830 was outside control limits for the following analyte(s): Benzene. Results may be biased high because this analyte is a common laboratory solvent and contaminant.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH02 (890-4682-1), BH02A (890-4682-2) and (890-4669-A-1-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4669-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53720 and analytical batch 880-53715 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53847 and analytical batch 880-53828 was outside the upper control limits.

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

HPLC/IC

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

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Client: Ensolum

Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Client Sample ID: BH02

Date Collected: 05/17/23 10:50 Date Received: 05/18/23 09:35

Sample Depth: 0.5

Lab Sample ID: 890-4682-1

Matrix: Solid

	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		05/19/23 15:42	05/22/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				05/19/23 15:42	05/22/23 20:32	1
1,4-Difluorobenzene (Surr)	77		70 - 130				05/19/23 15:42	05/22/23 20:32	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/23/23 09:03	1
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH									
Total IPH	154		50.0	15.0	mg/Kg			05/23/23 10:13	1
		nics (DRO)		15.0	mg/Kg			05/23/23 10:13	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) Qualifier		15.0	mg/Kg Unit	D	Prepared	05/23/23 10:13 Analyzed	
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Orga		(GC)	15.0		<u>D</u>	Prepared 05/22/23 09:25		1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	Qualifier	(GC)	15.0	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result 49.5	Qualifier J	(GC) RL 50.0	15.0 15.0	Unit mg/Kg	<u>D</u>	05/22/23 09:25	Analyzed 05/22/23 11:30	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 49.5	Qualifier J	(GC) RL 50.0	15.0 15.0 15.0	Unit mg/Kg mg/Kg	D	05/22/23 09:25 05/22/23 09:25	Analyzed 05/22/23 11:30 05/22/23 11:30	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 49.5 104 <50.0	Qualifier J	(GC) RL 50.0 50.0	15.0 15.0 15.0	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	05/22/23 09:25 05/22/23 09:25 05/22/23 09:25	Analyzed 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	sel Range Orga Result 49.5 104 <50.0	Qualifier J	(GC) RL 50.0 50.0 50.0 50.0	15.0 15.0 15.0	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	05/22/23 09:25 05/22/23 09:25 05/22/23 09:25 05/22/23 09:25	Analyzed 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	sel Range Orga Result 49.5 104 <50.0 154 %Recovery	Qualifier J	(GC) RL 50.0 50.0 50.0 Limits	15.0 15.0 15.0	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	05/22/23 09:25 05/22/23 09:25 05/22/23 09:25 05/22/23 09:25 Prepared	Analyzed 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30 Analyzed	1 Dil Face 1 1 1 1 1 1 1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Sel Range Orga Result 49.5 104 <50.0 154	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	15.0 15.0 15.0	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	05/22/23 09:25 05/22/23 09:25 05/22/23 09:25 05/22/23 09:25 Prepared 05/22/23 09:25	Analyzed 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30 05/22/23 11:30 Analyzed 05/22/23 11:30	Dil Fac

Client Sample ID: BH02A

Date Collected: 05/17/23 11:05 Date Received: 05/18/23 09:35

Sample Depth: 3.0

Chloride

Lab Sample ID: 890-4682-2	
---------------------------	--

05/22/23 17:37

Matrix: Solid

method: Swo46 8021B - volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		05/19/23 15:42	05/22/23 20:59	1	
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		05/19/23 15:42	05/22/23 20:59	1	
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		05/19/23 15:42	05/22/23 20:59	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		05/19/23 15:42	05/22/23 20:59	1	
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		05/19/23 15:42	05/22/23 20:59	1	
Xvlenes. Total	< 0.00398	U	0.00398	0.00101	ma/Ka		05/19/23 15:42	05/22/23 20:59	1	

25.1

1.98 mg/Kg

2970

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-4682-2

05/22/23 17:42

Client Sample Results

 Client: Ensolum
 Job ID: 890-4682-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91531

Client Sample ID: BH02A

Date Collected: 05/17/23 11:05 Date Received: 05/18/23 09:35

	S1+ culation Qualifier	70 - 130 70 - 130 RL				05/19/23 15:42 05/19/23 15:42	05/22/23 20:59 05/22/23 20:59	1
Calc	Qualifier					05/19/23 15:42	05/22/23 20:59	1
Result	Qualifier	RL						
		RL						
00398				Unit	D	Prepared	Analyzed	Dil Fac
	U	0.00398	0.00101	mg/Kg			05/23/23 09:03	1
rgan	ics (DRO) (0	GC)						
Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
47.7	J	50.0	15.0	mg/Kg			05/22/23 09:17	1
Result	Qualifier	RL _		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
_		•		Unit	D	Prepared	Analyzed	Dil Fac
								1
32.4	J	30.0	13.0	mg/rkg		03/19/23 07.37	03/19/23 19:09	'
<50.0	U	50.0	15.0	mg/Kg		05/19/23 07:57	05/19/23 19:09	1
47.7	J	50.0	15.0	mg/Kg		05/19/23 07:57	05/19/23 19:09	1
overy	Qualifier	Limits				Prepared	Analyzed	Dil Fac
94		70 - 130				05/19/23 07:57	05/19/23 19:09	1
99		70 - 130				05/19/23 07:57	05/19/23 19:09	1
	47.7 Orga Result 15.3 32.4 <50.0 47.7 overy 94 99	Qualifier	Organics (DRO) (GC) Result 15.3 J Qualifier 50.0 47.7 J 50.0 32.4 J 50.0 47.7 J 50.0 50.0 U 50.0 47.7 J 50.0 50.0 U 50.0 60 Devery 10 Qualifier 94 Process Limits 70.130 99 70.130 70.130	Organics (DRO) (GC) Result 15.3 J Solution (DRO) (GC) 32.4 J 50.0 15.0 <50.0 U	Organics (DRO) (GC) RL Unit 15.3 J 50.0 15.0 mg/Kg 32.4 J 50.0 15.0 mg/Kg <50.0 U	Organics (DRO) (GC) RL Unit D 15.0 Mg/Kg D Unit D 15.3 J 50.0 15.0 mg/Kg 32.4 J 50.0 15.0 mg/Kg <50.0	Organics (DRO) (GC) RL Unit D Prepared 15.3 J 50.0 15.0 mg/Kg 05/19/23 07:57 32.4 J 50.0 15.0 mg/Kg 05/19/23 07:57 <50.0	47.7 J 50.0 15.0 mg/Kg 05/22/23 09:17 Organics (DRO) (GC) Operation of the control of the

4.98

326

0.393 mg/Kg

Eurofins Carlsbad

Chloride

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Surrogate Summary

Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

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)	
890-4669-A-1-E MS	Matrix Spike	132 S1+	92	
890-4669-A-1-F MSD	Matrix Spike Duplicate	113	87	
890-4682-1	BH02	157 S1+	77	
890-4682-2	BH02A	150 S1+	71	
LCS 880-53609/1-A	Lab Control Sample	107	90	
LCSD 880-53609/2-A	Lab Control Sample Dup	101	79	
MB 880-53609/5-A	Method Blank	85	82	

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

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

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
28597-A-1-E MS	Matrix Spike	90	82	
8597-A-1-F MSD	Matrix Spike Duplicate	89	80	
682-1	BH02	107	125	
682-1 MS	BH02	121	127	
682-1 MSD	BH02	105	115	
682-2	BH02A	94	99	
80-53720/2-A	Lab Control Sample	72	71	
80-53847/2-A	Lab Control Sample	96	106	
880-53720/3-A	Lab Control Sample Dup	77	74	
0 880-53847/3-A	Lab Control Sample Dup	111	124	
380-53720/1-A	Method Blank	160 S1+	171 S1+	
880-53847/1-A	Method Blank	179 S1+	218 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53609/5-A

Lab Sample ID: LCS 880-53609/1-A

Matrix: Solid

Analysis Batch: 53830

Matrix: Solid Analysis Batch: 53830 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53609

	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/17/23 15:42	05/22/23 11:52	•
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/17/23 15:42	05/22/23 11:52	
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/17/23 15:42	05/22/23 11:52	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/17/23 15:42	05/22/23 11:52	
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/17/23 15:42	05/22/23 11:52	
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/17/23 15:42	05/22/23 11:52	

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	70 - 130	05/17/23 15:42	05/22/23 11:52	1
1,4-Difluorobenzene (Surr)	82	70 - 130	05/17/23 15:42	05/22/23 11:52	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53609

Prep Type: Total/NA

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1272 mg/Kg 127 70 - 130 Toluene 0.100 0.1152 mg/Kg 115 70 - 130 0.100 Ethylbenzene 0.1144 mg/Kg 114 70 - 130 0.200 0.2419 121 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1144 70 - 130 o-Xylene mg/Kg 114

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53830

Lab Sample ID: LCSD 880-53609/2-A

Prep Batch: 53609 LCSD LCSD RPD %Rec

Analyte	Added	Result Qu	ualifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1212	mg/Kg		121	70 - 130	5	35
Toluene	0.100	0.1074	mg/Kg		107	70 - 130	7	35
Ethylbenzene	0.100	0.1072	mg/Kg		107	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2266	mg/Kg		113	70 - 130	7	35
o-Xylene	0.100	0.1095	mg/Kg		109	70 - 130	4	35

Spike

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-4669-A-1-E MS

Matrix: Solid

Analysis Batch: 53830

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

Prep Batch: 53609

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0992	0.1399	F1	mg/Kg		141	70 - 130	
Toluene	<0.00200	U	0.0992	0.1207		mg/Kg		122	70 - 130	

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Job ID: 890-4682-1 Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

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

Lab Sample ID: 890-4669-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 53830

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0992	0.1074		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2236		mg/Kg		113	70 - 130	
o-Xylene	<0.00200	U	0.0992	0.1099		mg/Kg		111	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-4669-A-1-F MSD

Matrix: Solid

Analysis Batch: 53830

Client Sample ID:	Matrix Spike Duplicate
	Drop Type, Total/NA

Prep Type: Total/NA

Prep Batch: 53609

Prep Batch: 53609

Sample Sample Spike MSD MSD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00200 UF1 0.0990 0.1225 mg/Kg 124 70 - 130 13 35 0.09770 Toluene <0.00200 U 0.0990 mg/Kg 99 70 - 130 21 35 Ethylbenzene <0.00200 U 0.0990 0.09780 99 70 - 130 9 35 mg/Kg 0.198 m-Xylene & p-Xylene <0.00401 U 0.2045 mg/Kg 103 70 - 130 9 35 <0.00200 U 0.0990 0.09723 70 - 130 o-Xylene mg/Kg 98 12

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-53720/1-A **Matrix: Solid**

Analysis Batch: 53715

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Prep Batch: 53720	

MB MB Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared <50.0 U 50.0 05/19/23 07:57 05/19/23 08:23 Gasoline Range Organics 15.0 mg/Kg (GRO)-C6-C10 05/19/23 08:23 Diesel Range Organics (Over <50.0 U 50.0 05/19/23 07:57 15.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 05/19/23 07:57 05/19/23 08:23 15.0 mg/Kg Total TPH <50.0 U 50.0 05/19/23 07:57 05/19/23 08:23 15.0 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	05/19/23 07:57	05/19/23 08:23	1
o-Terphenyl	171	S1+	70 - 130	05/19/23 07:57	05/19/23 08:23	1

Lab Sample ID: LCS 880-53720/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 53715							Prep) batch: 53/2
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	862.7		mg/Kg		86	70 - 130	

(GRO)-C6-C10

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Prep Type: Total/NA

 Client: Ensolum
 Job ID: 890-4682-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91531

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

Lab Sample ID: LCS 880-53720/2-A

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53720

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (Over	1000	823.8		mg/Kg		82	70 - 130	
C10 C20)								

C10-C28)

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	72	70 - 130
o-Terphenyl	71	70 - 130

Lab Sample ID: LCSD 880-53720/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 53715
Prep Batch: 53720

Spike LCSD LCSD %Rec RPD Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD 1000 773.4 77 70 - 130 20 Gasoline Range Organics mg/Kg 11 (GRO)-C6-C10 Diesel Range Organics (Over 1000 807.4 mg/Kg 81 70 - 130 2 20

C10-C28)

	LCSD LCSD	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	77	70 - 130
o-Terphenyl	74	70 - 130

ICED ICED

Lab Sample ID: 880-28597-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53715

Sample Sample Spike MS MS

Prep Batch: 53720

%Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U Gasoline Range Organics 999 881.1 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 28.4 J 999 936.4 mg/Kg 91 70 - 130 C10-C28)

010 020)

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

Lab Sample ID: 880-28597-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 53715

Sample Sample Spike MSD MSD MSD %Rec RPD

Analyte Result Qualifier Added Qualifier RPD Limit Result Unit D %Rec Limits Gasoline Range Organics <50.0 U 999 951.5 mg/Kg 95 70 - 130 8 20 (GRO)-C6-C10 28.4 J 999 915.9 89 70 - 130 2 20 Diesel Range Organics (Over mg/Kg C10-C28)

MSD MSD
Surrogate %Recovery Qualifier Limits

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 89
 70 - 130

 o-Terphenyl
 80
 70 - 130

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Prep Type: Total/NA

Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

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

Lab Sample ID: MB 880-53847/1-A

Analysis Batch: 53828

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53847

	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	15.0	mg/Kg		05/22/23 08:00	05/22/23 08:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	15.0	mg/Kg		05/22/23 08:00	05/22/23 08:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		05/22/23 08:00	05/22/23 08:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		05/22/23 08:00	05/22/23 08:26	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130	05/22/23 08:00	05/22/23 08:26	1
o-Terphenyl	218	S1+	70 - 130	05/22/23 08:00	05/22/23 08:26	1

Lab Sample ID: LCS 880-53847/2-A

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53847

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 899.0 90 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 884.1 mg/Kg 88 70 - 130 C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 96 70 - 130 106 o-Terphenyl 70 - 130

Lab Sample ID: LCSD 880-53847/3-A

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53847

	Sı	ike	LCSD	LCSD				%Rec		RPD
Analyte	Ad	ded	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		000	999.0		mg/Kg		100	70 - 130	11	20
(GRO)-C6-C10										
Diesel Range Organics (Over	1	000	1018		mg/Kg		102	70 - 130	14	20
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-4682-1 MS

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: BH02

Prep Type: Total/NA Prep Batch: 53847

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	49.5	J	998	1131		mg/Kg		108	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	104		998	1181		ma/Ka		108	70 - 130

C10-C28)

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Job ID: 890-4682-1 Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

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

Lab Sample ID: 890-4682-1 MS **Matrix: Solid**

Analysis Batch: 53828

Client Sample ID: BH02 Prep Type: Total/NA

Prep Batch: 53847

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 127 70 - 130

Lab Sample ID: 890-4682-1 MSD Client Sample ID: BH02

Matrix: Solid

Analysis Batch: 53828

Prep Type: Total/NA Prep Batch: 53847

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 49.5 J. 999 940.5 89 70 - 13018 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 1032 93 104 mg/Kg 70 - 13013 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 105 70 - 130 1-Chlorooctane 115 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53742/1-A

Matrix: Solid

Analysis Batch: 53795

Client Sample ID: Method Blank **Prep Type: Soluble**

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed Chloride 5.00 <5.00 U 0.395 mg/Kg 05/22/23 15:07

Lab Sample ID: LCS 880-53742/2-A

Matrix: Solid

Analysis Batch: 53795

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 249.2 mg/Kg 100 90 - 110

мв мв

Lab Sample ID: LCSD 880-53742/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53795

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	250.9		mg/Kg	_	100	90 - 110	1	20

Lab Sample ID: 890-4680-A-20-B MS

Matrix: Solid

Analysis Batch: 53795

Prep Type: Soluble Spike MS MS %Rec Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 250 39.3 291.7 mg/Kg 101 90 - 110

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Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4680-A-20-C MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53795

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	39.3		250	292.2		mg/Kg		101	90 - 110	0	20

 Client: Ensolum
 Job ID: 890-4682-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91531

GC VOA

Prep Batch: 53609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Total/NA	Solid	5035	
890-4682-2	BH02A	Total/NA	Solid	5035	
MB 880-53609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4669-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4669-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Total/NA	Solid	8021B	53609
890-4682-2	BH02A	Total/NA	Solid	8021B	53609
MB 880-53609/5-A	Method Blank	Total/NA	Solid	8021B	53609
LCS 880-53609/1-A	Lab Control Sample	Total/NA	Solid	8021B	53609
LCSD 880-53609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53609
890-4669-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	53609
890-4669-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53609

Analysis Batch: 53964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Total/NA	Solid	Total BTEX	
890-4682-2	BH02A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53715

Lab Sample ID 890-4682-2	Client Sample ID BH02A	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 53720
MB 880-53720/1-A	Method Blank	Total/NA	Solid	8015B NM	53720
LCS 880-53720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53720
LCSD 880-53720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53720
880-28597-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53720
880-28597-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53720

Prep Batch: 53720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-2	BH02A	Total/NA	Solid	8015NM Prep	
MB 880-53720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28597-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28597-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53828

Released to Imaging: 11/29/2023 3:07:47 PM

Lab Sample ID 890-4682-1	Client Sample ID BH02	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 53847
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015B NM	53847
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53847
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53847
890-4682-1 MS	BH02	Total/NA	Solid	8015B NM	53847
890-4682-1 MSD	BH02	Total/NA	Solid	8015B NM	53847

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Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

GC Semi VOA

Prep Batch: 53847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Total/NA	Solid	8015NM Prep	
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4682-1 MS	BH02	Total/NA	Solid	8015NM Prep	
890-4682-1 MSD	BH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Total/NA	Solid	8015 NM	
890-4682-2	BH02A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4682-1	BH02	Soluble	Solid	DI Leach	
890-4682-2	BH02A	Soluble	Solid	DI Leach	
MB 880-53742/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53742/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53742/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4680-A-20-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4680-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4682-1	BH02	Soluble	Solid	300.0	53742
890-4682-2	BH02A	Soluble	Solid	300.0	53742
MB 880-53742/1-A	Method Blank	Soluble	Solid	300.0	53742
LCS 880-53742/2-A	Lab Control Sample	Soluble	Solid	300.0	53742
LCSD 880-53742/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53742
890-4680-A-20-B MS	Matrix Spike	Soluble	Solid	300.0	53742
890-4680-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53742

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5/23/2023

Client: Ensolum Job ID: 890-4682-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91531

Client Sample ID: BH02 Lab Sample ID: 890-4682-1

Date Collected: 05/17/23 10:50 Matrix: Solid Date Received: 05/18/23 09:35

	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	53609	05/19/23 15:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53830	05/22/23 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53964	05/23/23 09:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			53853	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53828	05/22/23 11:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53742	05/19/23 09:47	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53795	05/22/23 17:37	CH	EET MID

Client Sample ID: BH02A Lab Sample ID: 890-4682-2

Date Collected: 05/17/23 11:05 Matrix: Solid Date Received: 05/18/23 09:35

	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	53609	05/19/23 15:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53830	05/22/23 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53964	05/23/23 09:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			53853	05/22/23 09:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53720	05/19/23 07:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53715	05/19/23 19:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53742	05/19/23 09:47	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53795	05/22/23 17:42	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: 890-4682-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91531

Laboratory: Eurofins Midland

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

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

Eurofins Carlsbad

3

4

5

7

9

10

12

13

Method Summary

Client: Ensolum

Method

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: ROSS DRAW 3031

Job ID: 890-4682-1

SDG: 32.00075,-103.91531

EET MID

EET MID

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
SW846	EET MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

Method Description

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

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: ROSS DRAW 3031

Job ID: 890-4682-1

SDG: 32.00075,-103.91531

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4682-1	BH02	Solid	05/17/23 10:50	05/18/23 09:35	0.5
890-4682-2	BH02A	Solid	05/17/23 11:05	05/18/23 09:35	3.0

Relinquished by: (Signature)

R

B

D-18-23 9-35

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

13 14

eurofins **Environment Testing**

City, State ZIP:

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

	conditions le control xusly negotiated.	kotice: 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.	constitutes a valid purchase order from client company to Eurofins and shall not assume any responsibility for any losses or expenses ach project and a charge of \$5 for each sample submitted to Euro	Votice: Signature of this document and relinquishment of samples of service. Eurofins Xenco will be liable only for the cost of samples a of Eurofins Xenco. A minimum charge of \$85.00 will be applied to ea
	An Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Ag Tl U Hg: 1631/245.1/7470/7471	Be B Cd Ca Cr Co Cu Fe Pb Mg N Be Cd Cr Co Cu Pb Mn Mo Ni Se	8RCRA 13PPM Texas 11 AI S TCLP / SPLP 6010 : 8RCRA	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
62	tmorrissey@ensolum.com			
	30-015-45121			
	API:			
	NAPP2300442748			
D	n APP 222 72 HUHLI	(-	70.0	BHO2A
) ၁ (,	1 millor #15	XXX	3 10:50 0.5 6 1	RHO) S F
o 21	Sample Comments	B	Date Time Depth Grab/ # of Comp Cont	Sample Identification Matrix S
of	Custody NaOH+Ascorbic Acid: SAPC	PH	Corrected Temperature: 4.0	Total Containers:
23	Zn Acetate+NaOH: Zn	+		Yes No N/A
	Na ₂ S ₂ O ₃ ; NaSO ₃	10	Pa	Yes No N/A
	NaHSO 4: NABIS		ometer ID:	tact: (Yes) No
				DI E RECEIPT Temp Blank:
	2	100		
			TAT starts the day re	Nariaha O
	Cool: Cool MeOH: Me		3 91531 Due Date: 5 days	32.00075 -1
	None: NO DI Water: H ₂ O		30 Dréoutine Rush Pres.	roject Number: 036, 155 81
	Preservative Codes	ANALYSIS REQUEST	3031 Turn Around	Project Name: ROSS DRAIN 2
	Deliverables: EDD ADaPT Other:	Green @ Exxon Mobile com Do	Email: Garrett.	mone: 19703194364
	Reporting: Level III 🗌 Level III 📗 PST/UST 📗 TRRP 🔲 Level IV 🔲	Carlabad NM 88220 Rei	\ \(\text{\text{88220}} \) City, State ZIP:	city, State ZIP: Carlshad, NM
	State of Project:	3104 E. Greene, St. Sta	Darks HWY Address:	Address: 3122 National
	Program: UST/PST PRP Brownfields RRC Superfund	XTO E NORGU Pro	Company Name:	company Name: FOSOLUM, L
	Work Order Comments	Garrett Græn	MOYYISSEU Bill to: (if different)	roject Manager: Taloma Mo
	www.xenco.com Page 1 of 1	and the state of t		

Work Order No:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4682-1 SDG Number: 32.00075,-103.91531

Login Number: 4682 List Number: 1 Creator: Clifton, Cloe

ad

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: 890-4682-1

SDG Number: 32.00075,-103.91531

Login Number: 4682 List Number: 2

List Source: Eurofins Midland List Creation: 05/19/23 10:35 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: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/19/2023 3:38:12 PM

JOB DESCRIPTION

ROSS DRAW 3031 SDG NUMBER 32.00075,-103.91533

JOB NUMBER

890-4683-1

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 5/19/2023 3:38:12 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Ensolum
Project/Site: ROSS DRAW 3031
Labo

Laboratory Job ID: 890-4683-1 SDG: 32.00075,-103.91533

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Definitions/Glossary

Client: Ensolum Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Qualifiers

GC VOA

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

GC Semi 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

	•
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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 Positive / Present POS **Practical Quantitation Limit** PQL **PRES** Presumptive

Quality Control QC RER

Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count TNTC

Case Narrative

Client: Ensolum

Project/Site: ROSS DRAW 3031

Job ID: 890-4683-1

SDG: 32.00075,-103.91533

Job ID: 890-4683-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4683-1

Receipt

The samples were received on 5/18/2023 9:35 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 4.0°C

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SW14 (890-4683-1), SW10 (890-4683-2), SW11 (890-4683-3), FS16 (890-4683-4), FS17 (890-4683-5), FS18 (890-4683-6), FS19 (890-4683-7), SW12 (890-4683-8) and SW13 (890-4683-9). The container labels list 890-4683 while the COC lists #2 #3 The client was contacted, and the lab was instructed to <EXPLANATION REQUIRED>.

COC- SW10 5-16-23 15:20 0-3 JAR-SW10 5-16-23 8:45 0-3

COC-SW11 5-17-23 8:45 0-3 JAR-SW11 5-17-23 15:20 0-2

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW14 (890-4683-1), FS17 (890-4683-5), FS18 (890-4683-6) and SW12 (890-4683-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53721 and analytical batch 880-53716 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-53716/5), (LCS 880-53721/2-A) and (LCSD 880-53721/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-28573-A-1-E MS) and (880-28573-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-53721 and analytical batch 880-53716 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

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53722 and analytical batch 880-53718 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS19 (890-4683-7) and (880-28573-A-11-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW10 (890-4683-2), SW11 (890-4683-3) and FS16 (890-4683-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Case Narrative

Client: Ensolum

Project/Site: ROSS DRAW 3031

Job ID: 890-4683-1

SDG: 32.00075,-103.91533

Job ID: 890-4683-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Client Sample Results

Client: Ensolum Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: SW14

Date Collected: 05/17/23 15:20 Date Received: 05/18/23 09:35

Sample Depth: 0 - 3'

Lab Samp	le ID:	890-4683-1
----------	--------	------------

Matrix: Solid

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/19/23 10:45	05/19/23 12:14	
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			05/19/23 10:45	05/19/23 12:14	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/19/23 14:56	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.5	· · · · · · · · · · · · · · · · · · ·	50.0	mg/Kg			05/19/23 14:54	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		05/19/23 08:05	05/19/23 12:41	1
Diesel Range Organics (Over C10-C28)	79.5	*_	50.0	mg/Kg		05/19/23 08:05	05/19/23 12:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 08:05	05/19/23 12:41	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			05/19/23 08:05	05/19/23 12:41	
o-Terphenyl	74		70 - 130			05/19/23 08:05	05/19/23 12:41	1
-								
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion Analyte	• •	hy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW10

Date Collected: 05/16/23 15:20 Date Received: 05/18/23 09:35

Sample Depth: 0 - 3'

Lab Sample ID: 890-4683-2

Matrix: Solid

le Organic Comp	ounds (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
<0.00399	U	0.00399	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
<0.00399	U	0.00399	mg/Kg		05/19/23 10:45	05/19/23 12:34	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
93		70 - 130			05/19/23 10:45	05/19/23 12:34	1
	Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399 %Recovery	Result Qualifier	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00399 U 0.00399 <0.00200 U 0.00200 <0.00399 U 0.00399 %Recovery Qualifier Limits	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

Client: Ensolum

Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: SW10

Lab Sample ID: 890-4683-2 Date Collected: 05/16/23 15:20 Matrix: Solid Date Received: 05/18/23 09:35

Sample Depth: 0 - 3'

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 05/19/23 10:45 1,4-Difluorobenzene (Surr) 92 05/19/23 12:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00399 0.00399 05/19/23 14:56 mg/Kg

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

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 05/19/23 14:54

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U *-50.0 05/19/23 13:03 Gasoline Range Organics mg/Kg 05/19/23 08:05 (GRO)-C6-C10 <50.0 U *-50.0 mg/Kg 05/19/23 08:05 05/19/23 13:03 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/19/23 08:05 05/19/23 13:03

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 89 70 - 130 05/19/23 08:05 05/19/23 13:03 05/19/23 08:05 o-Terphenyl 69 S1-70 - 130 05/19/23 13:03

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 25.1 05/19/23 12:49 Chloride 697 mg/Kg

Lab Sample ID: 890-4683-3 Client Sample ID: SW11

Date Collected: 05/17/23 08:45 Date Received: 05/18/23 09:35

Sample Depth: 0 - 2'

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 05/19/23 10:45 05/19/23 12:55 Toluene <0.00201 U 0.00201 05/19/23 10:45 05/19/23 12:55 mg/Kg Ethylbenzene <0.00201 U 0.00201 05/19/23 10:45 05/19/23 12:55 mg/Kg 05/19/23 12:55 m-Xylene & p-Xylene <0.00402 U 0.00402 05/19/23 10:45 mg/Kg o-Xylene <0.00201 U 0.00201 mg/Kg 05/19/23 10:45 05/19/23 12:55 Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/19/23 10:45 05/19/23 12:55

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 109 05/19/23 10:45 05/19/23 12:55 1,4-Difluorobenzene (Surr) 107 70 - 130 05/19/23 10:45 05/19/23 12:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00402 0.00402 05/19/23 14:56 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 mg/Kg 05/19/23 14:54

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-4683-1

Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: SW11 Date Collected: 05/17/23 08:45 Date Received: 05/18/23 09:35

Sample Depth: 0 - 2'

Lab Sample ID: 890-4683-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		05/19/23 08:05	05/19/23 13:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		05/19/23 08:05	05/19/23 13:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/19/23 08:05	05/19/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			05/19/23 08:05	05/19/23 13:24	1
o-Terphenyl	67	S1-	70 - 130			05/19/23 08:05	05/19/23 13:24	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			25.0	mg/Kg			05/19/23 12:54	5

Lab Sample ID: 890-4683-4 **Client Sample ID: FS16** Date Collected: 05/17/23 13:25 Matrix: Solid

Date Received: 05/18/23 09:35

Sample Depth: 3 - 0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/19/23 10:45	05/19/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/19/23 10:45	05/19/23 13:15	1
1,4-Difluorobenzene (Surr)	108		70 - 130			05/19/23 10:45	05/19/23 13:15	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/19/23 14:56	1
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/19/23 14:56	1
Total BTEX : Method: SW846 8015 NM - Diese				mg/Kg			05/19/23 14:56	1
	el Range Organ			mg/Kg Unit	D	Prepared	05/19/23 14:56 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) (Control of the Control of	RL 49.9	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Control of the Control of	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 Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 05/19/23 14:54	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result Result 49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 05/19/23 14:54 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result Result 49.9 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U *-	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 05/19/23 14:54 Analyzed	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 Result Result Result <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U *-	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/19/23 08:05	Analyzed 05/19/23 14:54 Analyzed 05/19/23 13:46	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 Result Result Result <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U*-	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/19/23 08:05	Analyzed 05/19/23 14:54 Analyzed 05/19/23 13:46	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 49.9 sel Range Orga Result 49.9 49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U*- U*-	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05	Analyzed 05/19/23 14:54 Analyzed 05/19/23 13:46 05/19/23 13:46	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	ics (DRO) ((Qualifier U nics (DRO) Qualifier U*- U*-	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05 05/19/23 08:05	Analyzed 05/19/23 14:54 Analyzed 05/19/23 13:46 05/19/23 13:46	Dil Fac Dil Fac 1 1 1

Job ID: 890-4683-1

Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: FS16 Lab Sample ID: 890-4683-4 Date Collected: 05/17/23 13:25 Matrix: Solid

Date Received: 05/18/23 09:35

Sample Depth: 3 - 0'

Method: EPA 300.0 - Anions, Ion Ch	romatograph	ny - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.8		4.97	mg/Kg			05/19/23 13:10	1

Client Sample ID: FS17 Lab Sample ID: 890-4683-5

Date Collected: 05/17/23 11:40 Date Received: 05/18/23 09:35

Sample Depth: 1 - 0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:36	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:36	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:36	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 13:36	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:36	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 13:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130			05/19/23 10:45	05/19/23 13:36	
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			05/19/23 10:45	05/19/23 13:36	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/19/23 14:56	•
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Amalusta								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result		49.8 ———	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/19/23 14:54	
Total TPH	<49.8	U	49.8		D	Prepared		
Total TPH	<49.8 sel Range Orga	U	49.8		D	Prepared Prepared		,
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.8 sel Range Orga	nics (DRO) Qualifier	49.8 (GC)	mg/Kg			05/19/23 14:54	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<49.8 sel Range Orga Result	Unics (DRO) Qualifier U*-	49.8 (GC)	mg/Kg		Prepared	05/19/23 14:54 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8	Oualifier U*-	(GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 05/19/23 08:05	05/19/23 14:54 Analyzed 05/19/23 14:08	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8 <49.8	Oualifier U*- U*-	49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05	05/19/23 14:54 Analyzed 05/19/23 14:08 05/19/23 14:08	Dil Fac
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	<49.8 sel Range Orga Result <49.8 <49.8 <49.8	Oualifier U*- U*-	49.8 (GC) RL 49.8 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05 05/19/23 08:05	05/19/23 14:54 Analyzed 05/19/23 14:08 05/19/23 14:08	Dil Fa
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	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery	Oualifier U*- U*-	49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05 05/19/23 08:05 Prepared	05/19/23 14:54 Analyzed 05/19/23 14:08 05/19/23 14:08 05/19/23 14:08 Analyzed	Dil Fa
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	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 92 70	U nics (DRO) Qualifier U *- U *- U Qualifier	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05 05/19/23 08:05 Prepared 05/19/23 08:05	05/19/23 14:54 Analyzed 05/19/23 14:08 05/19/23 14:08 Analyzed 05/19/23 14:08	Dil Fa
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	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 92 70 a Chromatograp	U nics (DRO) Qualifier U *- U *- U Qualifier	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:05 05/19/23 08:05 05/19/23 08:05 Prepared 05/19/23 08:05	05/19/23 14:54 Analyzed 05/19/23 14:08 05/19/23 14:08 Analyzed 05/19/23 14:08	Dil Fac

Lab Sample ID: 890-4683-6

Job ID: 890-4683-1

Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Date Collected: 05/17/23 13:00 Date Received: 05/18/23 09:35

Client Sample ID: FS18

Sample Depth: 2 - 0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/19/23 10:45	05/19/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/19/23 10:45	05/19/23 13:56	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130			05/19/23 10:45	05/19/23 13:56	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/19/23 14:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9	mg/Kg			05/19/23 14:54	1

Method: SW846 8015B NM - Dies	hod: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics	<49.9	U *-	49.9	mg/Kg		05/19/23 08:05	05/19/23 14:30	1			
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U *-	49.9	mg/Kg		05/19/23 08:05	05/19/23 14:30	1			
C10-C28)											
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/19/23 08:05	05/19/23 14:30	1			
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
1-Chlorooctane	96		70 - 130			05/19/23 08:05	05/19/23 14:30	1			
o-Terphenyl	74		70 - 130			05/19/23 08:05	05/19/23 14:30	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	92.6	5.02	mg/Kg			05/19/23 13:21	1

Client Sample ID: FS19 Lab Sample ID: 890-4683-7

Date Collected: 05/17/23 15:15 Date Received: 05/18/23 09:35

Sample Depth: 3 - 0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/19/23 10:45	05/19/23 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/19/23 10:45	05/19/23 14:17	

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Matrix: Solid

Lab Sample ID: 890-4683-7

Client: Ensolum Job ID: 890-4683-1

Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Date Collected: 05/17/23 15:15 Date Received: 05/18/23 09:35

Client Sample ID: FS19

Sample Depth: 3 - 0'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	87	70 - 130	05/19/23 10:45	05/19/23 14:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/19/23 14:56	1

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			05/19/23 13:14	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	<49.9	U	49.9	mg/Kg		05/19/23 08:09	05/19/23 12:41	1		
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/19/23 08:09	05/19/23 12:41	1		
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/19/23 08:09	05/19/23 12:41	1		
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Eac		

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121	70 - 130	05/19/23 08:09	05/19/23 12:41	1
o-Terphenyl	134 S1+	70 - 130	05/19/23 08:09	05/19/23 12:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.03	mg/Kg			05/19/23 13:26	1

Client Sample ID: SW12 Lab Sample ID: 890-4683-8

Date Collected: 05/17/23 11:55 Date Received: 05/18/23 09:35

Sample Depth: 0 - 2'

Mathad. CINIO 4C OC	21B - Volatile Organic	Campainale (CC)
- Memon: Syva4b au	IZTB - Volatile Urganic	Compounds (GC)

rgaine comp	ounus (CC)	,					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
<0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
< 0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
<0.00402	U	0.00402	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
< 0.00201	U	0.00201	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
<0.00402	U	0.00402	mg/Kg		05/19/23 10:45	05/19/23 14:37	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
94		70 - 130			05/19/23 10:45	05/19/23 14:37	1
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <0.00402 <0.00402 %Recovery	Result Qualifier	<0.00201	Result Qualifier RL Unit <0.00201	Result Qualifier RL Unit D <0.00201	Result Qualifier RL Unit D Prepared <0.00201	Result Qualifier RL Unit D Prepared Analyzed <0.00201

Surrogate	%Recovery G	zuaimer	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/19/23 10:45	05/19/23 14:37	1
1,4-Difluorobenzene (Surr)		S1-	70 - 130	05/19/23 10:45	05/19/23 14:37	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	mg/Kg			05/19/23 14:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/19/23 14:47	1

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: SW12

Date Collected: 05/17/23 11:55 Date Received: 05/18/23 09:35

Sample Depth: 0 - 2'

Lab S	Sample	ID: 8	890-46	83-8
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Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 13:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 13:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			05/19/23 08:09	05/19/23 13:03	1
o-Terphenyl	127		70 - 130			05/19/23 08:09	05/19/23 13:03	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
					_			B.: E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW13 Lab Sample ID: 890-4683-9 **Matrix: Solid**

Date Collected: 05/17/23 13:15 Date Received: 05/18/23 09:35

Sample Depth: 0 - 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/19/23 10:45	05/19/23 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/19/23 10:45	05/19/23 16:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/19/23 10:45	05/19/23 16:07	1
Total BTEX	<0.00401	_	0.00401	mg/Kg			05/19/23 16:30	1
• -				mg/kg			03/19/23 10:30	'
: Method: SW846 8015 NM - Diese	l Range Organ			Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.9	ics (DRO) (Control of the Control of	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <49.9 sel Range Organ	ics (DRO) (Control of the Control of	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	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 Organ	Qualifier Unics (DRO) Qualifier	(GC)	Unit mg/Kg			Analyzed 05/19/23 14:47	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result Seel Range Organ Result <49.9 Result <49.9	ics (DRO) (Oualifier Unics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/19/23 08:09	Analyzed 05/19/23 14:47 Analyzed 05/19/23 13:24	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	Range Organ Result <49.9 sel Range Organ Result	ics (DRO) (Oualifier Unics (DRO) Qualifier U	(GC) RL 49.9	Unit mg/Kg		Prepared	Analyzed 05/19/23 14:47 Analyzed	Dil Fac 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 <49.9 Result <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/19/23 08:09	Analyzed 05/19/23 14:47 Analyzed 05/19/23 13:24	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	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/19/23 08:09 05/19/23 08:09	Analyzed 05/19/23 14:47 Analyzed 05/19/23 13:24 05/19/23 13:24	Dil Fac Dil Fac 1

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05/19/23 13:24

05/19/23 08:09

70 - 130

110

o-Terphenyl

Client Sample Results

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

Client Sample ID: SW13 Lab Sample ID: 890-4683-9

Date Collected: 05/17/23 13:15
Date Received: 05/18/23 09:35

Sample Depth: 0 - 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	114	4.99	mg/Kg			05/19/23 13:37	1	

5

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10

12

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

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)	
880-28597-A-1-A MS	Matrix Spike	118	109	
880-28597-A-1-B MSD	Matrix Spike Duplicate	90	117	
890-4683-1	SW14	106	69 S1-	
890-4683-2	SW10	93	92	
890-4683-3	SW11	109	107	
890-4683-4	FS16	113	108	
890-4683-5	FS17	100	63 S1-	
890-4683-6	FS18	97	64 S1-	
890-4683-7	FS19	107	87	
890-4683-8	SW12	94	66 S1-	
890-4683-9	SW13	99	91	
LCS 880-53707/1-A	Lab Control Sample	109	111	
LCSD 880-53707/2-A	Lab Control Sample Dup	114	113	
MB 880-53707/5-A	Method Blank	70	86	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28573-A-1-E MS	Matrix Spike	95	66 S1-
880-28573-A-1-F MSD	Matrix Spike Duplicate	90	63 S1-
880-28573-A-11-E MS	Matrix Spike	120	120
880-28573-A-11-F MSD	Matrix Spike Duplicate	105	107
890-4683-1	SW14	96	74
890-4683-2	SW10	89	69 S1-
890-4683-3	SW11	88	67 S1-
890-4683-4	FS16	88	68 S1-
890-4683-5	FS17	92	70
890-4683-6	FS18	96	74
890-4683-7	FS19	121	134 S1+
890-4683-8	SW12	117	127
890-4683-9	SW13	98	110
LCS 880-53721/2-A	Lab Control Sample	74	58 S1-
LCS 880-53722/2-A	Lab Control Sample	94	107
LCSD 880-53721/3-A	Lab Control Sample Dup	79	60 S1-
LCSD 880-53722/3-A	Lab Control Sample Dup	108	120
MB 880-53721/1-A	Method Blank	225 S1+	182 S1+
MB 880-53722/1-A	Method Blank	172 S1+	202 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-4683-1 SDG: 32.00075,-103.91533

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53707/5-A

Project/Site: ROSS DRAW 3031

Matrix: Solid

Analysis Batch: 53724

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53707

	IND	IVID
nalyte	Result	Qualifier
007000	<0.00200	11

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg	_	05/18/23 16:48	05/19/23 11:11	1
	Toluene	<0.00200	U	0.00200	mg/Kg		05/18/23 16:48	05/19/23 11:11	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/23 16:48	05/19/23 11:11	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/18/23 16:48	05/19/23 11:11	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/23 16:48	05/19/23 11:11	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/18/23 16:48	05/19/23 11:11	1
ı									

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MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70	70 - 130	05/18/23 16:48	05/19/23 11:11	1
1,4-Difluorobenzene (Surr)	86	70 - 130	05/18/23 16:48	05/19/23 11:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53707

Lab Sample ID: LCS 880-53707/1-A Matrix: Solid

Analysis Batch: 53724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1244		mg/Kg		124	70 - 130	
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130	
I and the second								

LCS LCS

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53724

Lab Sample ID: LCSD 880-53707/2-A

Prep Type: Total/NA Prep Batch: 53707

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1269		mg/Kg		127	70 - 130	2	35	
Toluene	0.100	0.1180		mg/Kg		118	70 - 130	12	35	
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130	9	35	
m-Xylene & p-Xylene	0.200	0.2533		mg/Kg		127	70 - 130	9	35	
o-Xylene	0.100	0.1265		mg/Kg		127	70 - 130	10	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-28597-A-1-A MS

Matrix: Solid

Analysis Batch: 53724

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

Prep Batch: 53707

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0990	0.1088		mg/Kg	_	110	70 - 130	
Toluene	<0.00200	U	0.0990	0.09163		mg/Kg		93	70 - 130	

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QC Sample Results

Job ID: 890-4683-1 Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

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

Lab Sample ID: 880-28597-A-1-A MS

Matrix: Solid Analysis Batch: 53724

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0990 0.09878 100 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 0.198 0.2031 mg/Kg 103 70 - 130 0.0990 o-Xylene <0.00200 U 0.1025 103 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-28597-A-1-B MSD

Matrix: Solid

Analysis Batch: 53724

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

Prep Batch: 53707

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53707

Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier RPD Limit Analyte babbA Unit %Rec Limits 0.0992 Benzene <0.00200 U 0.1102 mg/Kg 111 70 - 130 1 35 0.08210 Toluene <0.00200 U 0.0992 mg/Kg 83 70 - 130 11 35 Ethylbenzene <0.00200 U 0.0992 0.07490 mg/Kg 75 70 - 130 28 35 0.198 0.1460 74 70 - 130 35 m-Xylene & p-Xylene <0.00401 U mg/Kg 33 <0.00200 U 0.0992 0.07384 74 70 - 130 32 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 880-53721/1-A

Matrix: Solid

Analysis Batch: 53716

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

Prep Batch: 53721

	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		05/19/23 08:05	05/19/23 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/23 08:05	05/19/23 08:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 08:05	05/19/23 08:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	225	S1+	70 - 130	05/19/23 08:05	05/19/23 08:16	1
o-Terphenyl	182	S1+	70 - 130	05/19/23 08:05	05/19/23 08:16	1

Lab Sample ID: LCS 880-53721/2-A

Matrix: Solid

Analysis Batch: 53716

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

Prep Batch: 53721

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	622.9	*_	mg/Kg		62	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	656.3	*-	mg/Kg		66	70 - 130	
C10-C28)								

Job ID: 890-4683-1 Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

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

Lab Sample ID: LCS 880-53721/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 53716

Prep Type: Total/NA

Prep Batch: 53721

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 74 70 - 130 o-Terphenyl 58 S1-70 - 130

Lab Sample ID: LCSD 880-53721/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53716

Prep Type: Total/NA

Prep Batch: 53721

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 673.0 67 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 68 675.7 *mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 79 60 S1-70 - 130 o-Terphenyl

Lab Sample ID: 880-28573-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53716

Prep Type: Total/NA

Prep Batch: 53721

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U *-999 930.1 mg/Kg 91 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U*-999 756.2 mg/Kg 76 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 95 66 S1-70 - 130 o-Terphenyl

Lab Sample ID: 880-28573-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 53716

Matrix: Solid

Prep Type: Total/NA Prep Batch: 53721

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U *-1000 881.0 86 Gasoline Range Organics <49.9 mg/Kg 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U*-1000 717.5 mg/Kg 72 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 90 70 - 130 63 S1-70 - 130 o-Terphenyl

Client: Ensolum

Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

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

MD MD

202 S1+

Lab Sample ID: MB 880-53722/1-A

Matrix: Solid

Analysis Batch: 53718

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 53722

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 08:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 08:16	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 08:09	05/19/23 08:16	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130			05/19/23 08:09	05/19/23 08:16	1

Lab Sample ID: LCS 880-53722/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 53718

Client Sample ID: Lab Control Sample

05/19/23 08:16

05/19/23 08:09

Prep Type: Total/NA Prep Batch: 53722

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1120 112 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 885.7 mg/Kg 89 70 - 130C10-C28)

Limits

70 - 130

70 - 130

70 - 130

LCS LCS %Recovery Qualifier Surrogate 1-Chlorooctane 94

o-Terphenyl 107

Lab Sample ID: LCSD 880-53722/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 53722

Analysis Batch: 53718

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	920.1		mg/Kg		92	70 - 130	20	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	985.2		mg/Kg		99	70 - 130	11	20

C10-C28)

Matrix: Solid

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-28573-A-11-E MS

Matrix: Solid

Analysis Batch: 53718

Prep Type: Total/NA Prep Batch: 53722

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1110		mg/Kg		108	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1185		mg/Kg		119	70 - 130	
C10-C28)										

Job ID: 890-4683-1 SDG: 32.00075,-103.91533

Project/Site: ROSS DRAW 3031 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-28573-A-11-E MS

Matrix: Solid

Surrogate

Client: Ensolum

Analysis Batch: 53718

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53722

MS MS %Recovery Qualifier Limits

1-Chlorooctane 120 70 - 130 o-Terphenyl 120 70 - 130

Lab Sample ID: 880-28573-A-11-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53718

Prep Type: Total/NA

Prep Batch: 53722

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 999 923 7 90 70 - 13018 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 1035 104 <49.9 U mg/Kg 70 - 13013 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53737/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53773

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Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 05/19/23 12:06

Lab Sample ID: LCS 880-53737/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53773

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 252.1 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-53737/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 53773

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 254.0 102 90 - 110 20 mg/Kg

Lab Sample ID: 890-4683-9 MS Client Sample ID: SW13

Matrix: Solid Analysis Batch: 53773

Released to Imaging: 11/29/2023 3:07:47 PM

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec

Analyte Limits Chloride 250 114 361.2 mg/Kg 90 - 110

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Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4683-9 MSD

Matrix: Solid

Client Sample ID: SW13

Prep Type: Soluble

Analysis Batch: 53773

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	114		250	361.5		mg/Kg		99	90 - 110	0	20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

GC VOA

Prep Batch: 53707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	5035	
890-4683-2	SW10	Total/NA	Solid	5035	
890-4683-3	SW11	Total/NA	Solid	5035	
890-4683-4	FS16	Total/NA	Solid	5035	
890-4683-5	FS17	Total/NA	Solid	5035	
890-4683-6	FS18	Total/NA	Solid	5035	
890-4683-7	FS19	Total/NA	Solid	5035	
890-4683-8	SW12	Total/NA	Solid	5035	
890-4683-9	SW13	Total/NA	Solid	5035	
MB 880-53707/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53707/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53707/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28597-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-28597-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	8021B	53707
890-4683-2	SW10	Total/NA	Solid	8021B	53707
890-4683-3	SW11	Total/NA	Solid	8021B	53707
890-4683-4	FS16	Total/NA	Solid	8021B	53707
890-4683-5	FS17	Total/NA	Solid	8021B	53707
890-4683-6	FS18	Total/NA	Solid	8021B	53707
890-4683-7	FS19	Total/NA	Solid	8021B	53707
890-4683-8	SW12	Total/NA	Solid	8021B	53707
890-4683-9	SW13	Total/NA	Solid	8021B	53707
MB 880-53707/5-A	Method Blank	Total/NA	Solid	8021B	53707
LCS 880-53707/1-A	Lab Control Sample	Total/NA	Solid	8021B	53707
LCSD 880-53707/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53707
880-28597-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	53707
880-28597-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53707

Analysis Batch: 53787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	Total BTEX	
890-4683-2	SW10	Total/NA	Solid	Total BTEX	
890-4683-3	SW11	Total/NA	Solid	Total BTEX	
890-4683-4	FS16	Total/NA	Solid	Total BTEX	
890-4683-5	FS17	Total/NA	Solid	Total BTEX	
890-4683-6	FS18	Total/NA	Solid	Total BTEX	
890-4683-7	FS19	Total/NA	Solid	Total BTEX	
890-4683-8	SW12	Total/NA	Solid	Total BTEX	
890-4683-9	SW13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	8015B NM	53721
890-4683-2	SW10	Total/NA	Solid	8015B NM	53721
890-4683-3	SW11	Total/NA	Solid	8015B NM	53721

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

GC Semi VOA (Continued)

Analysis Batch: 53716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-4	FS16	Total/NA	Solid	8015B NM	53721
890-4683-5	FS17	Total/NA	Solid	8015B NM	53721
890-4683-6	FS18	Total/NA	Solid	8015B NM	53721
MB 880-53721/1-A	Method Blank	Total/NA	Solid	8015B NM	53721
LCS 880-53721/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53721
LCSD 880-53721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53721
880-28573-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53721
880-28573-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53721

Analysis Batch: 53718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-7	FS19	Total/NA	Solid	8015B NM	53722
890-4683-8	SW12	Total/NA	Solid	8015B NM	53722
890-4683-9	SW13	Total/NA	Solid	8015B NM	53722
MB 880-53722/1-A	Method Blank	Total/NA	Solid	8015B NM	53722
LCS 880-53722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53722
LCSD 880-53722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53722
880-28573-A-11-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53722
880-28573-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53722

Prep Batch: 53721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	8015NM Prep	
890-4683-2	SW10	Total/NA	Solid	8015NM Prep	
890-4683-3	SW11	Total/NA	Solid	8015NM Prep	
890-4683-4	FS16	Total/NA	Solid	8015NM Prep	
890-4683-5	FS17	Total/NA	Solid	8015NM Prep	
890-4683-6	FS18	Total/NA	Solid	8015NM Prep	
MB 880-53721/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53721/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28573-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28573-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 53722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-7	FS19	Total/NA	Solid	8015NM Prep	
890-4683-8	SW12	Total/NA	Solid	8015NM Prep	
890-4683-9	SW13	Total/NA	Solid	8015NM Prep	
MB 880-53722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28573-A-11-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28573-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Total/NA	Solid	8015 NM	
890-4683-2	SW10	Total/NA	Solid	8015 NM	
890-4683-3	SW11	Total/NA	Solid	8015 NM	
890-4683-4	FS16	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

GC Semi VOA (Continued)

Analysis Batch: 53781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-5	FS17	Total/NA	Solid	8015 NM	
890-4683-6	FS18	Total/NA	Solid	8015 NM	
890-4683-7	FS19	Total/NA	Solid	8015 NM	
890-4683-8	SW12	Total/NA	Solid	8015 NM	
890-4683-9	SW13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Soluble	Solid	DI Leach	
890-4683-2	SW10	Soluble	Solid	DI Leach	
890-4683-3	SW11	Soluble	Solid	DI Leach	
890-4683-4	FS16	Soluble	Solid	DI Leach	
890-4683-5	FS17	Soluble	Solid	DI Leach	
890-4683-6	FS18	Soluble	Solid	DI Leach	
890-4683-7	FS19	Soluble	Solid	DI Leach	
890-4683-8	SW12	Soluble	Solid	DI Leach	
890-4683-9	SW13	Soluble	Solid	DI Leach	
MB 880-53737/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53737/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53737/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4683-9 MS	SW13	Soluble	Solid	DI Leach	
890-4683-9 MSD	SW13	Soluble	Solid	DI Leach	

Analysis Batch: 53773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4683-1	SW14	Soluble	Solid	300.0	53737
890-4683-2	SW10	Soluble	Solid	300.0	53737
890-4683-3	SW11	Soluble	Solid	300.0	53737
890-4683-4	FS16	Soluble	Solid	300.0	53737
890-4683-5	FS17	Soluble	Solid	300.0	53737
890-4683-6	FS18	Soluble	Solid	300.0	53737
890-4683-7	FS19	Soluble	Solid	300.0	53737
890-4683-8	SW12	Soluble	Solid	300.0	53737
890-4683-9	SW13	Soluble	Solid	300.0	53737
MB 880-53737/1-A	Method Blank	Soluble	Solid	300.0	53737
LCS 880-53737/2-A	Lab Control Sample	Soluble	Solid	300.0	53737
LCSD 880-53737/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53737
890-4683-9 MS	SW13	Soluble	Solid	300.0	53737
890-4683-9 MSD	SW13	Soluble	Solid	300.0	53737

Job ID: 890-4683-1

Client: Ensolum Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Client Sample ID: SW14 Lab Sample ID: 890-4683-1

Date Collected: 05/17/23 15:20 Matrix: Solid Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 12:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53773	05/19/23 12:44	CH	EET MID

Client Sample ID: SW10 Lab Sample ID: 890-4683-2 Matrix: Solid

Date Collected: 05/16/23 15:20 Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53773	05/19/23 12:49	CH	EET MID

Client Sample ID: SW11 Lab Sample ID: 890-4683-3

Date Collected: 05/17/23 08:45 Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53737	05/19/23 09:29	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53773	05/19/23 12:54	CH	EET MID

Client Sample ID: FS16 Lab Sample ID: 890-4683-4

Date Collected: 05/17/23 13:25 **Matrix: Solid** Date Received: 05/18/23 09:35

_	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID

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Matrix: Solid

Released to Imaging: 11/29/2023 3:07:47 PM

Client: Ensolum Job ID: 890-4683-1 Project/Site: ROSS DRAW 3031 SDG: 32.00075,-103.91533

Lab Sample ID: 890-4683-4

Client Sample ID: FS16 Date Collected: 05/17/23 13:25 Date Received: 05/18/23 09:35

Matrix: Solid

	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			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53773	05/19/23 13:10	CH	EET MID

Lab Sample ID: 890-4683-5

Matrix: Solid

Date Collected: 05/17/23 11:40 Date Received: 05/18/23 09:35

Released to Imaging: 11/29/2023 3:07:47 PM

Client Sample ID: FS17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 14:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53737	05/19/23 09:29	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53773	05/19/23 13:16	CH	EET MID

Client Sample ID: FS18 Lab Sample ID: 890-4683-6

Date Collected: 05/17/23 13:00 **Matrix: Solid** Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53721	05/19/23 08:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53716	05/19/23 14:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53773	05/19/23 13:21	CH	EET MID

Client Sample ID: FS19 Lab Sample ID: 890-4683-7

Date Collected: 05/17/23 15:15 **Matrix: Solid** Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 13:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53722	05/19/23 08:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53718	05/19/23 12:41	SM	EET MID

 Client: Ensolum
 Job ID: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

Client Sample ID: FS19

Lab Sample ID: 890-4683-7

Date Collected: 05/17/23 15:15
Date Received: 05/18/23 09:35
Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 53737 CH Leach 4.97 g 50 mL 05/19/23 09:29 **EET MID** 300.0 05/19/23 13:26 EET MID Soluble Analysis 1 50 mL 50 mL 53773 СН

Client Sample ID: SW12 Lab Sample ID: 890-4683-8

Date Collected: 05/17/23 11:55 Matrix: Solid

Date Received: 05/18/23 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53722	05/19/23 08:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53718	05/19/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53773	05/19/23 13:32	CH	EET MID

Client Sample ID: SW13 Lab Sample ID: 890-4683-9

Date Collected: 05/17/23 13:15 Matrix: Solid
Date Received: 05/18/23 09:35

	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	53707	05/19/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/19/23 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53787	05/19/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			53781	05/19/23 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53722	05/19/23 08:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53718	05/19/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53737	05/19/23 09:29	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53773	05/19/23 13:37	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: 890-4683-1

 Project/Site: ROSS DRAW 3031
 SDG: 32.00075,-103.91533

Laboratory: Eurofins Midland

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

Authority Fexas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report by		and the state of the second control of the s	
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• '	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Ensolum

Project/Site: ROSS DRAW 3031

Job ID: 890-4683-1

SDG: 32.00075,-103.91533

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: ROSS DRAW 3031

Job ID: 890-4683-1

SDG: 32.00075,-103.91533

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4683-1	SW14	Solid	05/17/23 15:20	05/18/23 09:35	0 - 3'
890-4683-2	SW10	Solid	05/16/23 15:20	05/18/23 09:35	0 - 3'
890-4683-3	SW11	Solid	05/17/23 08:45	05/18/23 09:35	0 - 2'
890-4683-4	FS16	Solid	05/17/23 13:25	05/18/23 09:35	3 - 0'
890-4683-5	FS17	Solid	05/17/23 11:40	05/18/23 09:35	1 - 0'
890-4683-6	FS18	Solid	05/17/23 13:00	05/18/23 09:35	2 - 0'
890-4683-7	FS19	Solid	05/17/23 15:15	05/18/23 09:35	3 - 0'
890-4683-8	SW12	Solid	05/17/23 11:55	05/18/23 09:35	0 - 2'
890-4683-9	SW13	Solid	05/17/23 13:15	05/18/23 09:35	0 - 3'

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Total 200.7 / 60

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eurofins **Environment Testing** Xenco Midland, TX (432) 704-5440, San Anton EL Paso, TX (915) 585-3443, Lubbock Hobbs, NM (575) 392-7550, Carlsbad

Project Number:

Project Name:

Address:

3122 National Ensolum

ParksHMI

Address: City, State ZIP:

NIN

State of Project:

Program:

UST/PST PRP Brownfields **Work Order Comments**

RRC 🗆

Superfund [

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

Level IV

arkbad. NM 88220

ompany Name: roject Manager:

lacoma

Morrissey

Bill to: (if different)

Carrett

reen

Company Name:

City, State ZIP:

SAMPLE RECEIPT

Sampler's Name: Project Location:

Cooler Custody Seals:

amples Received Int

Total Containers: Sample Custody Seal

> Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

io, TX (210) 509-3334	Work Order No:		
TX (806) 794-1296			
NM (575) 988-3199		4	
	www.xenco.com	Page 🚣 of 🚣	of _

			03	5-18-23 935	S)		0	Jon (J. M.	11/11/04
	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time R			Received by: (Signature)	Received b	nature)	nquished by: (Signature)
		tlated.	nature 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 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 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.	Xenco, its affiliates and subco incurred by the client if such I fins Xenco, but not analyzed.	to Eurofins ed to Euro	r from client company isibility for any losses of or each sample submit	ralid purchase orde assume any respor nd a charge of \$5 f	amples constitutes a v amples and shall not lied to each project a	and relinquishment of sa ble only for the cost of s ge of \$85.00 will be appl	nature of this document Eurofins Xenco will be li Xenco. A minimum chai
	/7471	Hg: 1631 / 245.1 / 7470 / 7471	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	As Ba Be Cd Cr C	RA Sb	PLP 6010 : 8RC	TCLP / SF	nalyzed	Metal(s) to be a	Method(s) and Metal(s) to be analyzed
	U V Zn	Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	Cr Co Cu Fe Pb Mg Mn Mo	Al Sb As Ba Be B Cd Ca	d ds I	Texas 11	8RCRA 13PPM	88	200.8 / 6020:	200.7 / 6010
				4	1	0-3: 4	13:15	4	*	SW13
· (com	tmorrissey@ensolum.com	-tmo				0-2'	11:55			SW12
						3.01	15:15			FS ia
	015 45121	30-				2.0'	13:00			-518
		AP				10	11 5			1517
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	P2227244441	MAP				0-2'	8:45	51723		SWII
	P 23 00 442 748X	NAPP		1 1	_	0-3	15:20	22/10/20		OTMS
Pa	dent #'S:	lncid		XXX	H	0-3' C	15:26	517123	S	いダード
ge 3°	Sample Comments	Sa		Cr TI B	# of Cont	Depth Comp	Time Sampled	Date rix Sampled	on Matrix	Sample Identification
1 o	NaOH+Ascorbic Acid: SAPC	-HOPH	_	71 7E		0.17	emperature:	Corrected Temperature:		ontainers:
f 33	Zn Acetate+NaOH: Zn		030-4003 Chain of Custody	d X		4.0	e Reading:	Temperature Reading:	Yes No NA	Custody Seals:
3	Na ₂ S ₂ O ₃ : NaSO ₃			1(-0.0	actor:	Correction Factor:	Yes No N/A	Lustody Seals:
	NaHSO 4: NABIS	NaHSO				KOOM N	er ID:	Thermometer ID:	(Yes) No	Received Intact:
	HP	H ₃ PO ₄ ; HP		?5	eter	Yes No	Wet ice:	Yes No	निस्त्राp Blank:	E RECEIPT
	H ₂ NaOH: Na	H ₂ SO ₄ : H ₂			s	the lab, if received by 4:30pm	the lab, if rece			
	NH: ONH	нсг.нс				TAT starts the day received by	TAT starts the	De II	Mariaha 0	
	ool MeOH:Me	Cool: Cool				24hr	Due Date:	03 91531	.00075 -10	ocation: 32
	NO DI Water: H ₂ O	None: NO			Code	Rush	Routine	139	361558139	Number:
	Preservative Codes	Pr	ANALYSIS REQUEST			Turn Around	Turn	1505 MPA(USS Draw	Name:
	Other:	es: EDD ADaPT	Email: GAMBH. GYPIN @ EXXONMODILE. COM Deliverables:	IN @ EXXIN	6re	Carrett.	Email:	HOL	9703194364	Q

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4683-1

SDG Number: 32.00075,-103.91533

Login Number: 4683 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: 890-4683-1 SDG Number: 32.00075,-103.91533

Login Number: 4683 **List Source: Eurofins Midland** List Number: 2

List Creation: 05/19/23 10:35 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/26/2023 4:41:49 PM

JOB DESCRIPTION

Ross Draw 3031 SDG NUMBER 32.00075-103.91531

JOB NUMBER

890-4697-1

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 5/26/2023 4:41:49 PM

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

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

Client: Ensolum
Project/Site: Ross Draw 3031
Laboratory Job ID: 890-4697-1
SDG: 32.00075-103.91531

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Definitions/Glossary

Job ID: 890-4697-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Qualifiers

GC VOA Qualifier

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
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 MOI 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 **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4697-1

SDG: 32.00075-103.91531

Job ID: 890-4697-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4697-1

Receipt

The samples were received on 5/19/2023 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH03 (890-4697-1), BH03A (890-4697-2), BH04A (890-4697-3), BH04 (890-4697-4), BH05 (890-4697-5) and BH05A (890-4697-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-53970/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53947 and analytical batch 880-53936 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH04A (890-4697-3), BH05 (890-4697-5) and BH05A (890-4697-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53947 and analytical batch 880-53936 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD NM: LCS biased high for Diesel Range Organics (Over C10-C28). Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch and the data has been qualified and reported.(LCS 880-53947/2-A)

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4697-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4697-1

 Project/Site: Ross Draw 3031
 SDG: 32.00075-103.91531

Client Sample ID: BH03

Date Collected: 05/19/23 08:35 Date Received: 05/19/23 14:45

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 11:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/23/23 11:11	05/25/23 11:33	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/23/23 11:11	05/25/23 11:33	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:23	1
Analyte Total TDU		Qualifier	RL	Unit ma/Ka	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/24/23 09:55	1
Method: SW846 8015B NM - Die:								ı
mounds. Offort ou lon Mill - Dies	sel Range Orga	nics (DRO)	(GC)					'
	•	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	• •	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/23/23 08:48		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL		<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U *+	FL 50.0 50.0	mg/Kg	<u>D</u>	05/23/23 08:48	Analyzed 05/23/23 15:50 05/23/23 15:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U *+	RL 50.0	mg/Kg	<u>D</u>	05/23/23 08:48	Analyzed 05/23/23 15:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U U*+	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	05/23/23 08:48 05/23/23 08:48	Analyzed 05/23/23 15:50 05/23/23 15:50	Dil Fac 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*+	RL 50.0 50.0 50.0	mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48	Analyzed 05/23/23 15:50 05/23/23 15:50 05/23/23 15:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U*+	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared	Analyzed 05/23/23 15:50 05/23/23 15:50 05/23/23 15:50 Analyzed	Dil Fac
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	_ =	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	Analyzed 05/23/23 15:50 05/23/23 15:50 05/23/23 15:50 Analyzed 05/23/23 15:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U *+ U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	Analyzed 05/23/23 15:50 05/23/23 15:50 05/23/23 15:50 Analyzed 05/23/23 15:50	Dil Fac

Client Sample ID: BH03A

Date Collected: 05/19/23 09:05 Date Received: 05/19/23 14:45

Sample Depth: 4.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/23/23 11:11	05/25/23 11:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/23/23 11:11	05/25/23 11:53	1

Eurofins Carlsbad

Lab Sample ID: 890-4697-2

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Matrix: Solid

Job ID: 890-4697-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Client Sample ID: BH03A Lab Sample ID: 890-4697-2

Date Collected: 05/19/23 09:05 Matrix: Solid Date Received: 05/19/23 14:45

Sample Depth: 4.0'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	77	70 - 130	05/23/23 11:11	05/25/23 11:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	ma/Ka			05/26/23 17:23	1	

ı							
ı	Method: SW846	2015 NM	- Diacal	Pange (Irganice	(DRO) (GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	ma/Ka			05/24/23 09:55	1

	Method: SW846 8015B NM - Diesel Range Organics (DRO) (CCI	١.
ı	i Methou. 344040 00 136 MM - Diesei Rahue Ordanics (BRO) (4	90	,

Michiga, Offoro ou lob Min - Dica	oci ikanige Orga	illies (Bite)	(00)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 16:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		05/23/23 08:48	05/23/23 16:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 16:37	1
0	0/ 8	O	1 : :			D	A l	D# 5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114	70 - 130	05/23/23 08:48	05/23/23 16:37	1
o-Terphenyl	130	70 - 130	05/23/23 08:48	05/23/23 16:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualif		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114	5.03	mg/Kg			05/23/23 18:28	1

Client Sample ID: BH04A Lab Sample ID: 890-4697-3

Date Collected: 05/19/23 11:20 Date Received: 05/19/23 14:45

Sample Depth: 3.0'

ı	Method: SW846 8021B	Maladila Ossasia	O = ==== d= (OO)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/23/23 11:11	05/25/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/23/23 11:11	05/25/23 12:14	1
4.4.Diff	0.4		70 100			05/00/00 11 11	05/05/00 10 11	

4-bromonuorobenzene (Surr)	105	70 - 130	05/23/23 11.11	05/25/23 12.14	1
1,4-Difluorobenzene (Surr)	81	70 - 130	05/23/23 11:11	05/25/23 12:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	ט	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		_	05/26/23 17:23	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/24/23 09:55	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4697-3

Job ID: 890-4697-1

Client: Ensolum Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Client Sample ID: BH04A Date Collected: 05/19/23 11:20

Date Received: 05/19/23 14:45 Sample Depth: 3.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 16:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		05/23/23 08:48	05/23/23 16:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			05/23/23 08:48	05/23/23 16:58	1
o-Terphenyl	153	S1+	70 - 130			05/23/23 08:48	05/23/23 16:58	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			25.0	mg/Kg			05/23/23 18:33	5

Client Sample ID: BH04 Lab Sample ID: 890-4697-4 Date Collected: 05/19/23 11:10 Matrix: Solid

Date Received: 05/19/23 14:45

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/23/23 11:11	05/25/23 12:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/23/23 11:11	05/25/23 12:34	1
1,4-Difluorobenzene (Surr)	87		70 - 130			05/23/23 11:11	05/25/23 12:34	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/26/23 17:23	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/24/23 09:55	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	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		05/23/23 08:48	05/23/23 17:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			05/23/23 08:48	05/23/23 17:20	1
o-Terphenyl	125		70 - 130			05/23/23 08:48	05/23/23 17:20	1

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Job ID: 890-4697-1

Client: Ensolum SDG: 32.00075-103.91531

Lab Sample ID: 890-4697-4 Matrix: Solid

Date Received: 05/19/23 14:45

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450	24.9	mg/Kg			05/23/23 18:49	5

Lab Sample ID: 890-4697-5 **Client Sample ID: BH05**

Date Collected: 05/19/23 12:25 Date Received: 05/19/23 14:45

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 12:55	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 12:55	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 12:55	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 12:55	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 12:55	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 12:55	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			05/23/23 11:11	05/25/23 12:55	
1,4-Difluorobenzene (Surr)	78		70 - 130			05/23/23 11:11	05/25/23 12:55	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:23	•
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8	mg/Kg			05/24/23 09:55	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
								Dille
5 5	<49.8	U	49.8	mg/Kg		05/23/23 08:48	05/23/23 17:42	Direc
(GRO)-C6-C10	<49.8 <49.8					05/23/23 08:48 05/23/23 08:48	05/23/23 17:42 05/23/23 17:42	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U *+	49.8	mg/Kg				
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.8	U *+	49.8	mg/Kg		05/23/23 08:48	05/23/23 17:42	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 <49.8	U *+	49.8 49.8 49.8	mg/Kg		05/23/23 08:48 05/23/23 08:48	05/23/23 17:42 05/23/23 17:42	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.8 <49.8 	U *+	49.8 49.8 49.8 <i>Limits</i>	mg/Kg		05/23/23 08:48 05/23/23 08:48 Prepared	05/23/23 17:42 05/23/23 17:42 Analyzed	Dil Fa
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 	U *+ U Qualifier S1+	49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg		05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	05/23/23 17:42 05/23/23 17:42 Analyzed 05/23/23 17:42	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 **Recovery 112 131 Chromatograp	U *+ U Qualifier S1+	49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	D	05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	05/23/23 17:42 05/23/23 17:42 Analyzed 05/23/23 17:42	Dil Fa

Project/Site: Ross Draw 3031 **Client Sample ID: BH04** Date Collected: 05/19/23 11:10

Matrix: Solid

5/26/2023

Matrix: Solid

Lab Sample ID: 890-4697-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-4697-1

 Project/Site: Ross Draw 3031
 SDG: 32.00075-103.91531

Client Sample ID: BH05A

Date Collected: 05/19/23 12:40 Date Received: 05/19/23 14:45

Sample Depth: 3.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 13:15	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 13:15	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 13:15	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 13:15	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 13:15	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 13:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	94		70 - 130			05/23/23 11:11	05/25/23 13:15	
1,4-Difluorobenzene (Surr)	84		70 - 130			05/23/23 11:11	05/25/23 13:15	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:23	
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			KL	Unit	U	Prepared	Anaivzed	
IOIAI II II	<49.9	U	49.9	mg/Kg			05/24/23 09:55	
				mg/Kg				
	sel Range Orga	nics (DRO)	(GC)		_			
Method: SW846 8015B NM - Dies	sel Range Orga Result	nics (DRO) Qualifier		mg/Kg Unit	D	Prepared		
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 05/23/23 08:48	05/24/23 09:55	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	<u>·</u>	05/24/23 09:55 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	Unit mg/Kg	<u>D</u>	05/23/23 08:48	05/24/23 09:55 Analyzed 05/23/23 18:03	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	Qualifier U *+	(GC) RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48	05/24/23 09:55 Analyzed 05/23/23 18:03 05/23/23 18:03	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	Qualifier U *+	(GC) RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48	05/24/23 09:55 Analyzed 05/23/23 18:03 05/23/23 18:03	Dil Fac
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	sel Range Orga Result <49.9	Qualifier U *+	(GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared	05/24/23 09:55 Analyzed 05/23/23 18:03 05/23/23 18:03 05/23/23 18:03 Analyzed	Dil Fac
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	sel Range Orga Result <49.9	U*+ U Qualifier U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	05/24/23 09:55 Analyzed 05/23/23 18:03 05/23/23 18:03 Analyzed 05/23/23 18:03	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	U*+ U Qualifier U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/23/23 08:48 05/23/23 08:48 05/23/23 08:48 Prepared 05/23/23 08:48	05/24/23 09:55 Analyzed 05/23/23 18:03 05/23/23 18:03 Analyzed 05/23/23 18:03	Dil Fac

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Surrogate Summary

Job ID: 890-4697-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4697-1	BH03	94	80	
890-4697-1 MS	BH03	113	103	
390-4697-1 MSD	BH03	115	103	
390-4697-2	ВН03А	106	77	
390-4697-3	BH04A	105	81	
390-4697-4	BH04	92	87	
390-4697-5	BH05	107	78	
390-4697-6	BH05A	94	84	
_CS 880-53970/1-A	Lab Control Sample	107	91	
CSD 880-53970/2-A	Lab Control Sample Dup	117	99	
MB 880-53970/5-A	Method Blank	69 S1-	80	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptar
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4697-1	BH03	108	125	
90-4697-2	BH03A	114	130	
90-4697-3	BH04A	137 S1+	153 S1+	
90-4697-4	BH04	109	125	
90-4697-5	BH05	112	131 S1+	
90-4697-6	BH05A	111	133 S1+	
90-4700-A-21-B MS	Matrix Spike	115	107	
90-4700-A-21-C MSD	Matrix Spike Duplicate	109	98	
CS 880-53947/2-A	Lab Control Sample	91	99	
CSD 880-53947/3-A	Lab Control Sample Dup	91	98	
ИВ 880-53947/1-A	Method Blank	168 S1+	195 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4697-1 Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53970/5-A

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53970

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Toluene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/23/23 11:11	05/25/23 11:11	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/23/23 11:11	05/25/23 11:11	•

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	05/23/23 11:11	05/25/23 11:11	1
1.4-Difluorobenzene (Surr)	80		70 - 130	05/23/23 11:11	05/25/23 11:11	1

Lab Sample ID: LCS 880-53970/1-A

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53970

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1073		mg/Kg		107	70 - 130	
Toluene	0.100	0.09785		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: LCSD 880-53970/2-A

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 53970

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1172 mg/Kg 117 70 - 130 9 35 Toluene 0.100 0.1015 mg/Kg 101 70 - 130 35 Ethylbenzene 0.100 0.1084 mg/Kg 108 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2291 mg/Kg 115 70 - 130 10 35 0.100 0.1165 o-Xylene mg/Kg 117 70 - 130 10 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4697-1 MS

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: BH03 Prep Type: Total/NA

Prep Batch: 53970

MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits <0.00199 U 0.0998 117 Benzene 0.1171 mg/Kg 70 - 130 Toluene <0.00199 U 0.0998 0.1083 mg/Kg 108 70 - 130

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Oliant Cample ID: DUGO

QC Sample Results

Client: Ensolum Job ID: 890-4697-1 SDG: 32.00075-103.91531 Project/Site: Ross Draw 3031

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

Lab Sample ID: 890-4697-1 MS **Matrix: Solid**

Analysis Batch: 54128

-1 IVIS					Client Sample ID: BH03
					Prep Type: Total/NA
					Prep Batch: 53970
Sam	ole Samole	Snike	M	MS	%Rec

			- P						,0.100
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U	0.0998	0.1155		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2391		mg/Kg		120	70 - 130
o-Xylene	< 0.00199	U	0.0998	0.1196		mg/Kg		120	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample

Matrix: Solid

Analysis Ba

le ID: 890-4697-1 MSD				Client Sample II	D: BH03
lid				Prep Type: 1	Total/NA
Batch: 54128				Prep Batch	n: 53970
	Sample Sample	Spike	MSD MSD	%Rec	RPD

Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit <0.00199 U 0.100 0.1131 70 - 130 Benzene mg/Kg 113 3 35 Toluene <0.00199 U 0.100 0.1023 102 70 - 130 35 mg/Kg 6 Ethylbenzene <0.00199 U 0.100 0.1112 mg/Kg 111 70 - 130 35 4 m-Xylene & p-Xylene <0.00398 U 0.200 0.2290 114 70 - 130 35 mg/Kg 0.100 o-Xylene <0.00199 U 0.1151 70 - 130 mg/Kg 115

MSD MSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

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

Lab Sample ID: MB 880-53947/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 53936

MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 08:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 08:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 08:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130	05/23/	/23 08:48	05/23/23 08:52	1
o-Terphenyl	195	S1+	70 - 130	05/23/	/23 08:48	05/23/23 08:52	1

Lab Sample ID: LCS 880-53947/2-A **Matrix: Solid**

Analysis Batch: 53936

		Prep Type: Total/NA
		Prep Batch: 53947
Spike	LCS LCS	%Rec

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1061		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1399	*+	mg/Kg		140	70 - 130	
C10-C28)								

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Client Sample ID: Lab Control Sample

Prep Batch: 53947

Job ID: 890-4697-1 Client: Ensolum Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

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

LCS LCS

Lab Sample ID: LCS 880-53947/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-53947/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1007 101 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1300 130 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 91 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl

Lab Sample ID: 890-4700-A-21-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 1000 1085 mg/Kg 106 70 - 130 (GRO)-C6-C10 2390 *+ F1 Diesel Range Organics (Over 1000 2847 F1 mg/Kg 46 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 115 70 - 130 o-Terphenyl 107

Lab Sample ID: 890-4700-A-21-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 998 1053 103 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 2390 *+ F1 998 2702 F1 mg/Kg 31 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 109 70 - 130 98 70 - 130 o-Terphenyl

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5/26/2023

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH03

Client Sample ID: BH03

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

 Client: Ensolum
 Job ID: 890-4697-1

 Project/Site: Ross Draw 3031
 SDG: 32.00075-103.91531

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53879/1-A

Matrix: Solid

Analysis Batch: 53997

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Vinit
 Unit Mg/Kg
 Prepared Dil Fac Dil

Lab Sample ID: LCS 880-53879/2-A

Matrix: Solid

Analysis Batch: 53997

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-53879/3-A

Matrix: Solid

Analysis Batch: 53997

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 253.7 mg/Kg 101 90 - 110

Lab Sample ID: 890-4697-1 MS

Matrix: Solid

Analysis Batch: 53997

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits Chloride 398 1240 1586 96 90 - 110 mg/Kg

Lab Sample ID: 890-4697-1 MSD

Matrix: Solid

Analysis Batch: 53997

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1240 398 1554 mg/Kg 93 90 - 110 20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4697-1

 Project/Site: Ross Draw 3031
 SDG: 32.00075-103.91531

GC VOA

Prep Batch: 53970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	5035	
890-4697-2	BH03A	Total/NA	Solid	5035	
890-4697-3	BH04A	Total/NA	Solid	5035	
890-4697-4	BH04	Total/NA	Solid	5035	
890-4697-5	BH05	Total/NA	Solid	5035	
890-4697-6	BH05A	Total/NA	Solid	5035	
MB 880-53970/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53970/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4697-1 MS	BH03	Total/NA	Solid	5035	
890-4697-1 MSD	BH03	Total/NA	Solid	5035	

Analysis Batch: 54128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	8021B	53970
890-4697-2	ВН03А	Total/NA	Solid	8021B	53970
890-4697-3	BH04A	Total/NA	Solid	8021B	53970
890-4697-4	BH04	Total/NA	Solid	8021B	53970
890-4697-5	BH05	Total/NA	Solid	8021B	53970
890-4697-6	BH05A	Total/NA	Solid	8021B	53970
MB 880-53970/5-A	Method Blank	Total/NA	Solid	8021B	53970
LCS 880-53970/1-A	Lab Control Sample	Total/NA	Solid	8021B	53970
LCSD 880-53970/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53970
890-4697-1 MS	BH03	Total/NA	Solid	8021B	53970
890-4697-1 MSD	BH03	Total/NA	Solid	8021B	53970

Analysis Batch: 54279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	Total BTEX	
890-4697-2	ВН03А	Total/NA	Solid	Total BTEX	
890-4697-3	BH04A	Total/NA	Solid	Total BTEX	
890-4697-4	BH04	Total/NA	Solid	Total BTEX	
890-4697-5	BH05	Total/NA	Solid	Total BTEX	
890-4697-6	BH05A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	8015B NM	53947
890-4697-2	BH03A	Total/NA	Solid	8015B NM	53947
890-4697-3	BH04A	Total/NA	Solid	8015B NM	53947
890-4697-4	BH04	Total/NA	Solid	8015B NM	53947
890-4697-5	BH05	Total/NA	Solid	8015B NM	53947
890-4697-6	BH05A	Total/NA	Solid	8015B NM	53947
MB 880-53947/1-A	Method Blank	Total/NA	Solid	8015B NM	53947
LCS 880-53947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53947
LCSD 880-53947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53947
890-4700-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	53947
890-4700-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53947

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QC Association Summary

Client: Ensolum Job ID: 890-4697-1 Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

GC Semi VOA

Prep Batch: 53947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	8015NM Prep	
890-4697-2	BH03A	Total/NA	Solid	8015NM Prep	
890-4697-3	BH04A	Total/NA	Solid	8015NM Prep	
890-4697-4	BH04	Total/NA	Solid	8015NM Prep	
890-4697-5	BH05	Total/NA	Solid	8015NM Prep	
890-4697-6	BH05A	Total/NA	Solid	8015NM Prep	
MB 880-53947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4700-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4700-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Total/NA	Solid	8015 NM	_
890-4697-2	ВН03А	Total/NA	Solid	8015 NM	
890-4697-3	BH04A	Total/NA	Solid	8015 NM	
890-4697-4	BH04	Total/NA	Solid	8015 NM	
890-4697-5	BH05	Total/NA	Solid	8015 NM	
890-4697-6	BH05A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Soluble	Solid	DI Leach	
890-4697-2	BH03A	Soluble	Solid	DI Leach	
890-4697-3	BH04A	Soluble	Solid	DI Leach	
890-4697-4	BH04	Soluble	Solid	DI Leach	
890-4697-5	BH05	Soluble	Solid	DI Leach	
890-4697-6	BH05A	Soluble	Solid	DI Leach	
MB 880-53879/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53879/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53879/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4697-1 MS	BH03	Soluble	Solid	DI Leach	
890-4697-1 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 53997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4697-1	BH03	Soluble	Solid	300.0	53879
890-4697-2	BH03A	Soluble	Solid	300.0	53879
890-4697-3	BH04A	Soluble	Solid	300.0	53879
890-4697-4	BH04	Soluble	Solid	300.0	53879
890-4697-5	BH05	Soluble	Solid	300.0	53879
890-4697-6	BH05A	Soluble	Solid	300.0	53879
MB 880-53879/1-A	Method Blank	Soluble	Solid	300.0	53879
LCS 880-53879/2-A	Lab Control Sample	Soluble	Solid	300.0	53879
LCSD 880-53879/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53879
890-4697-1 MS	BH03	Soluble	Solid	300.0	53879
890-4697-1 MSD	BH03	Soluble	Solid	300.0	53879

Eurofins Carlsbad

SDG: 32.00075-103.91531

Client Sample ID: BH03

Project/Site: Ross Draw 3031

Client: Ensolum

Lab Sample ID: 890-4697-1

Matrix: Solid

Date Collected: 05/19/23 08:35 Date Received: 05/19/23 14:45

	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	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 11:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54279	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54054	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 15:50	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53997	05/23/23 18:11	SMC	EET MID

Client Sample ID: BH03A Lab Sample ID: 890-4697-2

Date Collected: 05/19/23 09:05 Matrix: Solid

Date Received: 05/19/23 14:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 53970 Total/NA 5.01 g 5 mL 05/23/23 11:11 MNR EET MID Total/NA 8021B 5 mL 05/25/23 11:53 **EET MID** Analysis 1 5 mL 54128 SM Total/NA Total BTEX 54279 05/26/23 17:23 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 54054 05/24/23 09:55 SM **EET MID** Total/NA 53947 Prep 8015NM Prep 10.03 g 10 mL 05/23/23 08:48 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 53936 05/23/23 16:37 SM **EET MID** Soluble Leach DI Leach 4.97 g 50 mL 53879 05/22/23 12:18 SMC EET MID Soluble Analysis 300.0 50 mL 50 mL 53997 05/23/23 18:28 SMC **EET MID**

Lab Sample ID: 890-4697-3 Client Sample ID: BH04A Date Collected: 05/19/23 11:20 Matrix: Solid

Date Received: 05/19/23 14:45

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 12:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54279	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54054	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53947	05/23/23 08:48	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 16:58	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	53879	05/22/23 12:18	SMC	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	53997	05/23/23 18:33	SMC	EET MIC

Client Sample ID: BH04 Lab Sample ID: 890-4697-4 Date Collected: 05/19/23 11:10 Matrix: Solid

Date Received: 05/19/23 14:45

	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	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 12:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54279	05/26/23 17:23	SM	EET MID

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Page 18 of 25

Client: Ensolum

Job ID: 890-4697-1 Project/Site: Ross Draw 3031 SDG: 32.00075-103.91531

Client Sample ID: BH04

Date Received: 05/19/23 14:45

Lab Sample ID: 890-4697-4 Date Collected: 05/19/23 11:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54054	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 17:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53997	05/23/23 18:49	SMC	EET MID

Client Sample ID: BH05 Lab Sample ID: 890-4697-5

Date Collected: 05/19/23 12:25 **Matrix: Solid**

Date Received: 05/19/23 14:45

	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	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 12:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54279	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54054	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 17:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53997	05/23/23 18:55	SMC	EET MID

Client Sample ID: BH05A Lab Sample ID: 890-4697-6

Date Collected: 05/19/23 12:40 **Matrix: Solid** Date Received: 05/19/23 14:45

	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	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 13:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54279	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54054	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53997	05/23/23 19:00	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4697-1

 Project/Site: Ross Draw 3031
 SDG: 32.00075-103.91531

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w	
the agency does not of	• •	t the laboratory to not oor tin	ed by the governing additionty. This list the	ay include analytes for v	
the agency does not of Analysis Method	• •	Matrix	Analyte	y molude analytes for v	
0 ,	fer certification.	•	, , ,		

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Method Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4697-1

SDG: 32.00075-103.91531

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Ross Draw 3031

Job ID: 890-4697-1

SDG: 32.00075-103.91531

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4697-1	BH03	Solid	05/19/23 08:35	05/19/23 14:45	0.5'
890-4697-2	ВН03А	Solid	05/19/23 09:05	05/19/23 14:45	4.0'
890-4697-3	BH04A	Solid	05/19/23 11:20	05/19/23 14:45	3.0'
890-4697-4	BH04	Solid	05/19/23 11:10	05/19/23 14:45	0.5'
890-4697-5	BH05	Solid	05/19/23 12:25	05/19/23 14:45	0.5'
890-4697-6	BH05A	Solid	05/19/23 12:40	05/19/23 14:45	3.0'

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Relinquished by: (Sign

ce: Signature of this document

Circle Method(s) and N

Total 200.7 / 6010

eurofins Xenco **Environment Testing**

Address:

City, State ZIP:

Project Manager:

acoma

MOYYISSCH

Bill to: (if different) Company Name:

GY CRN

ParksHwu

Address:

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

State of Project:

Program:

UST/PST PRP Brownfields RRC

Superfund []

Work Order Comments

www.xenco.com

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EDD

ADaPT

SAMPLE RECEIPT

samples Received Intact:

Cooler Custody Seals:

mple Custody Seals:

Total Containers:

Sample Identification

CHOS

BHO4

Phone 5HU3A

BHOGA I R Sampler's Name:

roject Location:

Project Number:

oject Name:

Chain of Custody

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

TWU FIND I	Enternal October 14	7		
5 DRAW 3031	Turn Around		ANALYSIS REQUEST	Preservative Codes
C1558139 MRoutine	outine Rush	Pres.		None: NO DI Water: H ₂ O
20075 - 203, 01531 Due Date:	Date: 5 days			Cool: Cool MeOH: Me
TAT ST	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO 3: HN
Temp Blank: Key No Wet	Wet Ice: (Fey No	eters		H ₃ PO ₄ : HP
Thermometer I	7			NaHSO 4: NABIS
Q N/A	6.0			Na ₂ S ₂ O ₃ ; NaSO ₃
NO NIA	ling:	ÔÝ	7 X	Zn Acetate+NaOH: Zn
Corrected Temperature	ature: 5.10		890-4697 Chain of Custody	NaOH+Ascorbic Acid: SAPC
Matrix Sampled Sam	Time Depth Grab/	# of	BT	Sample Comments
3	35 0.5 6	1-	× × × × × × × × × × × × × × × × × × ×	incident #5
Q.	0.4 60.	_		nAPP 222 7244441
	1.203.01			NAPP 2300442748
111	10 0.51			
.) 12	225051	2		ADI
4 4 13	40 3 D' W	<		30-015 45121
				tymarrissey @pnisoh
		1		۷.
		L		
200.8 / 6020: 8RCRA letal(s) to be analyzed TO	8RCRA 13PPM Texas 11 Al Sb As Ba TCLP / SPLP 6010 : 8RCRA Sb As Ba	A SP	TCLP/SPLP 6010:8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	SiO ₂ Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471
relinquishment of samples constitutes a valid purc only for the cost of samples and shall not assume a	chase order from client company any responsibility for any losses o	expenses	nd relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions le 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	
2000 Alli oc obbieca co cacu bioloccio una o crea	a de constant antique partition		-	her (Signature)
neceived by Julyindule	A L	7	INTO INTERPORTED TO THE PROPERTY OF THE PROPER	
1 10000	1	X		

Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4697-1

SDG Number: 32.00075-103.91531

Login Number: 4697
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	

1

5

4

6

4 4

12

15

14

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4697-1

SDG Number: 32.00075-103.91531

List Source: Eurofins Midland

List Creation: 05/23/23 10:47 AM

Login Number: 4697 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 D

NMOCD Notifications

From: <u>Green, Garrett J</u>
To: <u>Tacoma Morrissey</u>

Subject: FW: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

Date: Friday, November 18, 2022 3:38:40 PM

[**EXTERNAL EMAIL**]

From: Green, Garrett J

Sent: Friday, November 18, 2022 8:52 AM

To: 'ocd.enviro@emnrd.nm.gov' <ocd.enviro@emnrd.nm.gov>; 'Bratcher, Michael, EMNRD' <mike.bratcher@emnrd.nm.gov>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@emnrd.nm.gov>; 'Harimon, Jocelyn, EMNRD' <Jocelyn.Harimon@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>

Subject: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

All,

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

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

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

Foust, Bryan Jacob

From: Foust, Bryan Jacob

Sent: Wednesday, January 11, 2023 9:28 AM

To: ocd.enviro@emnrd.nm.gov; Robert.Hamlet@emnrd.nm.gov; Bratcher, Michael, EMNRD

Cc: Green, Garrett J; DelawareSpills /SM

Subject: XTO -48 Hour liner inspection notification - Ross Draw 3031 battery - released

12/25/2022

Good morning,

This is sent as a 48-hour notification. XTO is scheduled to inspect the lined containment at Ross Draw 3031 battery, released 12/25/2022, on Friday, January 13 2023 at 9:30 AM. A 24 hour release notification was not sent since the release was less than 25 barrels in volume. Please call us with any questions or concerns.

GPS Coordinates: 32.000693, -103.915370

Thank you,

Jake Foust SSHE Coordinator (environmental) 432-266-2663

Foust, Bryan Jacob

From: Foust, Bryan Jacob

Sent: Friday, January 13, 2023 1:23 PM

To: DelawareSpills /SM

Subject: Ross Draw 3031 liner inspection photos

Attachments: Ross Draw 3031 liner photo1.jpg; Ross Draw 3031 liner photo2.jpg; Ross Draw 3031

liner photo3.jpg

Inspection passed, no visible holes

Thank you,

Jake Foust SSHE Coordinator (environmental) 432-266-2663

Collins, Melanie

From: Collins, Melanie

Sent: Tuesday, March 21, 2023 2:39 PM

To: ocd.enviro (ocd.enviro@emnrd.nm.gov); Bratcher, Michael, EMNRD

(mike.bratcher@emnrd.nm.gov); Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov); Hamlet, Robert, EMNRD

(Robert.Hamlet@emnrd.nm.gov)

Cc:Green, Garrett J; DelawareSpills /SM; esessums@ntglobal.comSubject:XTO Extension Request - NAPP2300442748 Ross Draw 3031 TB

All,

XTO is requesting an extension of the 03/25/23 deadline to submit a remediation plan/closure report to NMOCD for the 12/25/2022 release at the Ross Draw 3031 Tank Battery. In order to characterize and address the extent of the impact of this release, XTO requests a 90- day extension to June 23, 2023.

Thank you,

Melanie Collins

ENERGY

Environmental Technician melanie.collins@exxonmobil.com

432-556-3756

Tacoma Morrissey

From: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Wednesday, April 26, 2023 4:05 PM

To: Green, Garrett J

Cc: Ashley Ager; Tacoma Morrissey

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID:

166962

[**EXTERNAL EMAIL**]

Ross Draw 3031 9/15/22

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Wednesday, April 26, 2023 3:52 PM

To: Collins, Melanie <melanie.collins@exxonmobil.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 166962

External Email - Think Before You Click

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2227244441, for the following reasons:

• The Remediation Plan is Denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Due to the sensitive nature of the site (high karst), the variance request for 500 ft2 confirmation samples is denied. Please collect confirmation samples, representing no more than 200 ft2. Additionally, please make sure sidewall/edge samples are taken as close to the secondary containment as possible to ensure fluids didn't go underneath the containment. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur in 90 days after the work plan has been reviewed.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 166962. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: <u>Green, Garrett J</u>

To: <u>Tacoma Morrissey</u>; <u>Ben Belill</u>

Subject: Fwd: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

Date: Friday, May 12, 2023 5:50:39 PM

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

From: "Enviro, OCD, EMNRD" < OCD. Enviro@emnrd.nm.gov>

Date: May 12, 2023 at 4:02:13 PM MDT

To: "Green, Garrett J" <garrett.green@exxonmobil.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet,

Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 -

5/19/23)

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. When sampling at multiple sites, a more detailed schedule of days at each site should be provide. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

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: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, May 11, 2023 11:04 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey

<tmorrissey@ensolum.com>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

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 May 15, 2023.

Monday

- Ross Draw 3031/ nAPP2227244441 & NAPP2300442748

Tuesday

- Ross Draw 3031/ nAPP2227244441 and NAPP2300442748
- Outrider Fed 28 Pad B / NAPP2306936047

Wednesday

Outrider Fed 28 Pad B / NAPP2306936047

Thursday

- Outrider Fed 28 Pad B / NAPP2306936047
- PLU PC 17 BATTERY/ nAPP2233951574

Friday

- Sizzler 2H / NMAP1822337753
- PLU PC 17 BATTERY/ nAPP2233951574
- JRU 108 / nAPP2217931599

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

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

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

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

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 232199

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	232199
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests deferral of final remediation for Incident Numbers NAPP2227244441 & NAPP2300442748 until the site is reconstructed, and/or the well pad is abandoned. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are the impacted soil, which include BH01 located under the lined containment, SW10 located immediately adjacent to active production equipment, and the deferral area (color orange) around the outside of the lined containment on figure 4 (June 23, 2023, Deferral Request Report). The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	11/29/2023