

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	nAPP2107554265
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.ralej@wpxenergy.com	Incident # (assigned by OCD) nAPP2107554265
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0336418 _____ Longitude -103.8763428 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: ROSS DRAW UNIT #034	Site Type: Oil Production Facility
Date Release Discovered: March 7 th , 2021	API# (if applicable) 30-015-41578

Unit Letter	Section	Township	Range	County
D	22	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 8	Volume Recovered (bbls) 5
☒ Produced Water	Volume Released (bbls) 1	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of polish rod packing allowed release of approx 9 bbls (1 oil/8 PW) to pad surface. Small amount of fluids migrated off pad.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$$

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>James Raley</u>	Title: <u>Environmental Specialist</u>
Signature: 	Date: <u>04/06/2020</u>
email: <u>james.ralej@wpenergy.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>4/29/2021</u>

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>105</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.

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.

State of New Mexico
Oil Conservation Division

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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: Jim Raley Title: Environmental ProfessionalSignature:  Date: 7/18/2022email: jim.raley@dm.com Telephone: 575-689-7597**OCD Only**

Received by: _____ Date: _____

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Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jim Raley

Title: Environmental Professional

Signature: 

Date: 7/18/2022

email: jim.raley@dvn.com

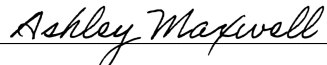
Telephone: 575-689-7597

OCD Only

Received by: OCD

Date: 7/19/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 9/14/2022

Printed Name: Ashley Maxwell

Title: Environmental Specialist



REMEDIATION WORK PLAN ADDENDUM AND CLOSURE REQUESTS

Site Location:

**Ross Draw Unit #034
Eddy County, New Mexico
Incident Numbers: nAPP2107554265, NAB1736055339 (2RP-4529), and
NAB1528240224 (2RP-3322)**

July 14, 2022
Ensolum Project No. 03A1987003

Prepared for:

**WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, New Mexico 88220
Attention: Jim Raley**

Prepared by:

Joseph S. Hernandez
Senior Geologist

Daniel R. Moir, PG
Senior Managing Geologist

Ross Draw Unit #034

Incident Number: nAPP2107554265, NAB1736055339, and NAB1528240224

Remediation Work Plan Addendum and Closure Requests

July 14, 2022



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APPENDICES

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this updated Remediation Work Plan Addendum and Closure Requests (RWPA&CR) to document site assessment and soil sampling activities performed by WPX Permian Energy, LLC (WPX) at the Ross Draw Unit #034 (hereinafter referred to as the "Site") located in Unit D, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (**Figure 1 in Appendix A**). Based on initial efforts to address releases on and off pad of at the Site, field observations, field screening laboratory analytical results from additional delineation soil sampling activities at the Site, WPX respectfully submits this RWPA&CR report, which summarizes remedial activities that have occurred and proposes additional remediation activities for one historical release and no further action (NFA) for two other reportable releases. All previous remediation activity summaries, soil sample analytical results, and submitted deliverable documents can be referenced in the original Remediation Work Plan (RWP) and RWPA, authored by WSP USA (WSP), which was approved by the New Mexico Oil and Conservation Division (NMOCD) on April 22, 2022.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.0336418, -103.8763428) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) managed federal land (**Figure 1 in Appendix A**).

WSP submitted Work Plans to the NMOCD for the three reportable releases of crude oil and/or produced water that occurred between October 2015 and March 2021. WPX reported each release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141). The releases are described in further detail in the original Work Plans. The releases were assigned Incident Numbers NAB1528240224 (2RP-3322), NAB1736055339 (2RP-4529) and nAPP2107554265

1.2 Site Characterization

The approved RWPA detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The Site receptors are identified on **Figure 1 in Appendix A** and the release locations are presented on **Figure 2 in Appendix A**. Based on the site characterization, the following Closure Criteria were applied:

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet in the pasture area that was impacted by the release.

1.3 Project Objective

The primary objectives of Ensolum's scope of services were to follow through with delineation activities approved in the original RWPA. Specifically, Ensolum documented site characterization in accordance with the applicable NMOCD regulatory guidelines and assessed soil for the presence or absence of concentrations of constituents of concern (COCs) exceeding the Closure Criteria and/or the reclamation requirement.

2.0 SOIL SAMPLING

Ensolum conducted soil sampling activities at the Site to verify the presence or absence of soil impacts associated with the subject releases. Delineation samples were collected in potholes advanced with heavy equipment (samples designated PH) or boreholes with a hand auger (samples designated as BH). Delineation activities were directed by field screening soil for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. In general, at least total two soil samples were collected from each delineation soil sample location: the sample with the highest observed field screening and the greatest depth. The location of the delineation samples are shown in **Figure 2 in Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic soil sampling logs (**Appendix C**). Photographic documentation during delineation activities is included in **Appendix D**.

The delineation soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of 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.

The following subsections detail delineation activities for the three subject releases.

2.1 nAPP2107554265 and NAB1736055339 (2RP-4529)

On May 18 and 19, 2022, soil sampling activities were conducted by Ensolum to confirm the presence or absence of impacted soil in areas associated with the subject release areas. A total of 14 potholes (PH01 through PH14) were completed in and around the release extents for Incident Numbers nAPP2107554265 and NAB1736055339 (2RP-4529). Potholes PH01 and PH02 were advanced to approximately 4 feet bgs inside the release extents and the remaining 12 potholes were advanced to approximately 1 foot bgs outside the release extents for lateral definition of COCs. It should be noted that potholes PH09, PH10, and PH11 were advanced off pad, assessing the pasture for reclamation requirements.

2.2 NAB1528240224 (2RP-3322)

On May 19, 2022, soil sampling activities for this release coinciding with field activities for the preceeding two releases. A total of 10 boreholes (BH01 through BH10) were advanced to approximately 4.5 feet bgs in and around the release extent to confirm the presence or absence of impacted soil. Boreholes BH01 through BH03 were advanced within the release extent and boreholes BH04 through BH10 were advanced beyond the release extent for lateral definition of COCs. BH09 exhibited elevated concentrations of COCs associated with the reclamation requirement, which resulted in an expanded investigation area toward the west. The release

extent is located off pad in a pipeline ROW, therefore the reclamation requirements were applied to this release.

3.0 SOIL SAMPLING RESULTS

Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**. Historical laboratory analytical results have been previously submitted to NMOCD and are present on the NMOCD imaging portal online.

3.1 nAPP2107554265 and NAB1736055339 (2RP-4529)

Laboratory analytical results for delineation pothole soil samples PH01 through PH08, and PH12 through PH14, collected at depths ranging from approximately 0.5 feet to 4 feet bgs, in and around the release extent, indicated all COC concentrations were in compliance with the Closure Criteria. Laboratory analytical results for delineation pothole samples PH09 through PH11, collected in the pasture at depths of 0.5 feet and 1 foot bgs, indicated all COC concentrations were in compliance with the Closure Criteria as well as the reclamation requirement.

3.2 NAB1528240224 (2RP-3322)

Laboratory analytical results for delineation borehole soil samples BH01 through BH10 indicated COC concentrations were all in compliance with the Closure Criteria; however, based on the location of the release, soil sample analytical results were also evaluated against the reclamation requirement. Laboratory analytical results for delineation borehole soil samples BH01, BH02 and BH09 indicated chloride exceeded the reclamation requirement at depths ranging from 1 foot to 3 feet bgs. Beyond 4 feet bgs, all soil samples were in compliance with the Closure Criteria.

4.0 CONCLUSIONS

4.1 nAPP2107554265 and NAB1736055339 (2RP-4529)

During March 2021, WPX excavated impacted soil within the release footprints to depths ranging from 0.5 feet to 1-foot bgs on pad and 0.5 feet to 5 feet bgs off pad. Based on excavation soil sampling activities completed (March 16, 2021 by WSP) within the two overlapping release extents, COCs in soil on and off pad are in compliance with the Closure Criteria. Furthermore, COCs in off pad soil was also compliant with the reclamation requirement.

The May 2022 delineation soil sampling activities appear to have confirmed the absence of residual impacts on and off pad as they relate to COCs for the two releases. All soil samples collected in and around the release extents, including off pad, are in compliance with applicable Closure Criteria and/or reclamation requirement. As a result, excavation and delineation activities appear to have adequately addressed impacted soil above COCs and/or confirmed soil impacts are below COCs for the December 2017 and March 2021 releases.

4.2 NAB1528240224 (2RP-3322)

Delineation activities for the October 2015 release indicated that there is an absence of impacts to soil for COCs related to the release; however, the release did occur within a pipeline ROW off

pad and therefore the reclamation requirements will apply. Laboratory analytical results for soil samples collected between 1 foot and 3 feet bgs indicated concentrations of chloride exceeded the reclamation requirement. Based on these results, waste-containing soil appears to be present within and outside portions of the release extent to a depth of 4 feet bgs.

5.0 CLOSURE REQUESTS - nAPP2107554265 & NAB1736055339 (2RP-4529)

A release of crude oil and produced water at the Site's wellhead in March 2021 overlapped with a historical release of produced water from a flowline in 2017. The combined release of fluids was 8 bbls of oil and 6 bbls of produced water. Through immediate efforts to minimize impacts to the environment, WPX recovered 5 bbls of crude oil and 2 bbls of produced water via vacuum trucks. In addition, WPX excavated 150 cubic yards of soil within the March 2021 release extent, which did overlap with the 2017 release. Confirmation soil samples from the floor and sidewalls of the excavation confirmed residual soil was in compliance with the Closure Criteria and/or with reclamation requirements (off pad soil in the top 4 feet).

Subsequently, WPX conducted delineation activities at the Site in May 2021 and most recently in May 2022. A total of 14 potholes were advanced to assess for the presence or absence of impacts to soil from the 2017 release as well as provide lateral definition for the both releases. Based on previous remediation efforts, delineation analytical results, and field observations, it appears the two releases have been fully characterized and remediated to meet requirements set forth in 19.15.29 NMAC. WPX has remediated Incident Numbers nAPP2107554265 and NAB1736055339 (2RP-4529) that has been protective of human health, the environment, and groundwater. As such, WPX respectfully requests NFA for Incident Numbers nAPP2107554265 & NAB1736055339 (2RP-4529).

6.0 REMEDIATION WORK PLAN ADDENDUM - NAB1528240224 (2RP-3322)

Based on the conclusions presented above, the following remediation is proposed:

- Waste-containing soil within the pipeline ROW and in the vicinity of boreholes BH01, BH02, BH03, and BH09 will be excavated pursuant to 19.15.29.13 NMAC to *"restore the impacted areas to the condition that existed prior to the release or their final land use."* While impacted soil exceeding the Closure Criteria has not been documented in connection to this release, waste-containing as defined by 19.15.29.13 NMAC is present, specifically soil containing chloride at concentrations greater than 600 mg/kg. As such, areas with waste-containing soil will be excavated and transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment location utilizing chemical fixation. Chemical fixation will be completed through the application of 3 Tier Technologies' SA-1000 or SA-2000 amendment to waste-containing soil. Following confirmation of chloride concentrations meeting reclamation requirements, on a frequency of one 5-point composite sample per 100 cubic yards of soil treated soil, the soil will be backfilled into the excavation.
- Since soil removal/treatment is solely based on the reclamation requirements, confirmation samples of floors and/or sidewalls do not appear to be required. WPX will verify delineation sampling is sufficient to document the removal of waste-containing soil where applicable.

Ross Draw Unit #034

Incident Number: nAPP2107554265, NAB1736055339, and NAB1528240224

Remediation Work Plan Addendum and Closure Requests

July 14, 2022



- Surface scraping may be conducted to remove any minor surficial staining in areas that are delineated;
- Access for remediation or disturbance that occurs offsite requires landowner approval. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;
- WPX or third party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing near utility lines. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative; and
- Subsequent to the completion of remediation and receipt of soil confirmation sample results documenting that waste-containing soil has been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

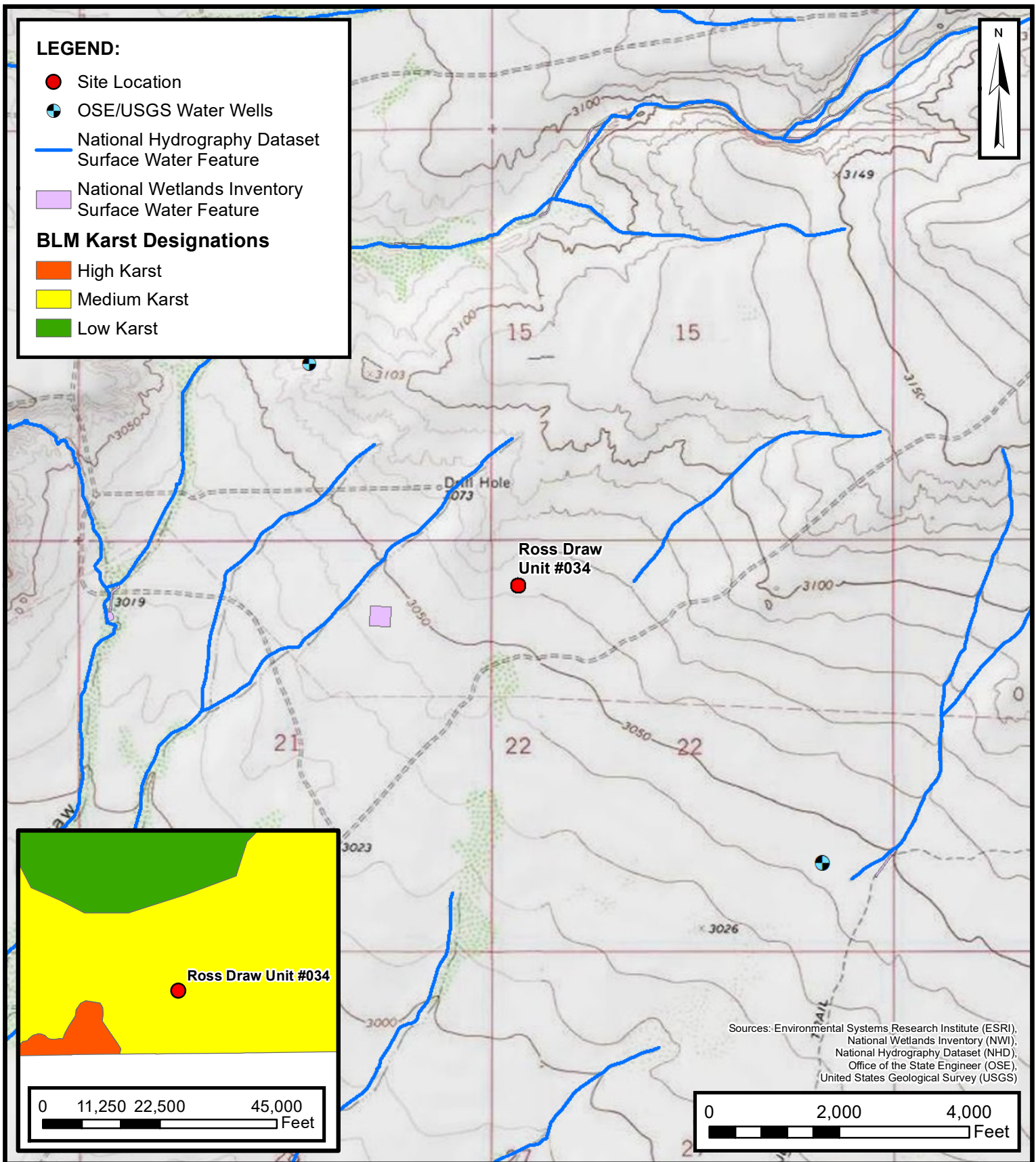
WPX believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWPA&CR from NMOCD.

Based on the extent of planning and coordination at the Site, WPX anticipates initiating remediation activities for Incident Number NAB1528240224 (2RP-3322) within 90 days following approval from the landowner (BLM) and NMOCD. A follow-up report detailing remediation activities described above, including a summary of laboratory analytical results, will be submitted to NMOCD within 60 days of completing field activities.



APPENDIX A

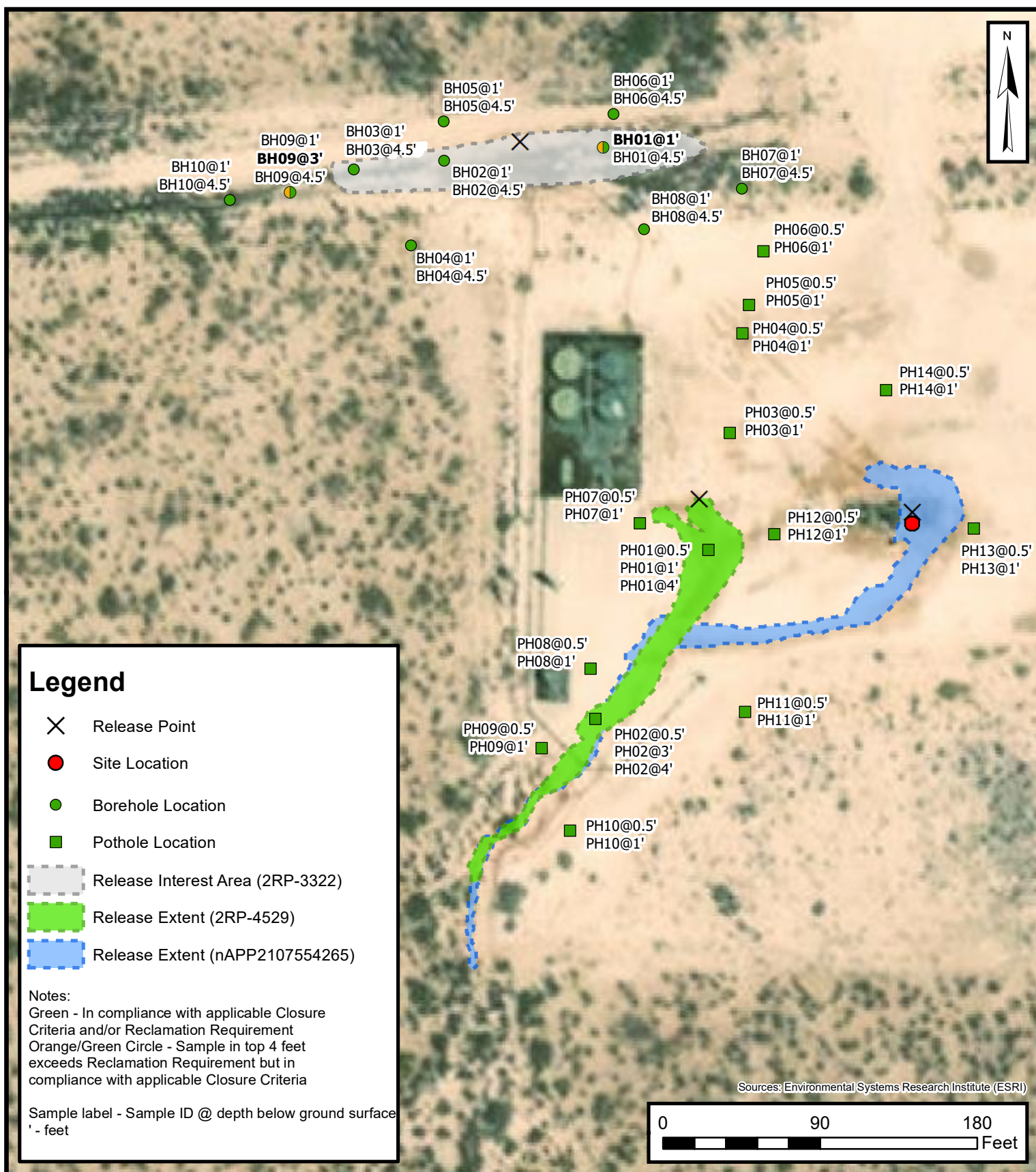
Figures



Site Receptor Map

Ross Draw Unit #034
WPX Energy Permian, LLC
Unit D Sec 22 T26S R30E
Eddy County, New Mexico

FIGURE
1





APPENDIX B

Referenced Well Records

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Well Number:		Location:			
							MW-1		Ross Draw Unit #38			
							Date:		Client:			
							12/8/2020		WPX Energy			
Drilling Method:			Sampling Method:				Logged By:		Drilled By:			
Air Rotary			None				J. Linn, PG		Talon LPE			
Gravel Pack Type:			Gravel Pack Depth Interval:				Seal Type:		Seal Depth Interval:		Latitude:	
10/20 Sand			3 Bags				None		None		32.030300	
Casing Type:		Diameter:	Depth Interval:		Boring Total Depth (ft. BGS):				Longitude:			
PVC		2-inch	0-100 feet bgs		105				-103.871338			
Screen Type:		Slot:	Diameter:	Depth Interval:		Well Total Depth (ft. BGS):				Depth to Water (ft. BTOC):		DTW Date:
PVC		0.010-inch	2-inch	100-105 ft		105				> 105		12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion	
0	NM	L	D	N	N	NM	SW	NS	Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand			
5												
10												
15												
20	NM	L	D	N	N	NM	SP	NS	Pale orange/pale pink poorly graded fine sand			
25												
30												
35	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand			
40												
45												
50												
55												
60												
65	NM	L	D	N	N	NM	SP	NS	Brick red brown poorly graded fine sand			
70												
75												
80												
85												
90												
95	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS			
100												



APPENDIX C

Lithologic Soil Sampling Logs

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: PH01		Date: 05/18/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1736055339 (2RP-4529)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Back Hoe	
Hole Diameter: n/a		Total Depth: 4 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	932	-	No	PH01	0.5	0	CCHE	0-1': compacted pad surface caliche			
Dry	1,744	-	No	PH01	1	1	SP-SM	1-4': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	1,632	-	No			2					
Dry	1,160	-	No			3					
Dry	932	-	No	PH01	4	4					
Total Depth											

								Sample Name: PH02		Date: 05/18/2022	
								Site Name: Ross Draw Unit #034			
LITHOLOGIC / SOIL SAMPLING LOG								Job Number: 03A1987018			
								Logged By: LC		Method: Back Hoe	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above								Hole Diameter: n/a		Total Depth: 4 feet	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	1,080	-	No	PH02	0.5	0	CCHE	0-1': compacted pad surface caliche			
Dry	1,744	-	No			1	SP-SM	1-4': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	1,744	-	No			2					
Dry	1,861	-	No	PH02	3	3					
Dry	1,424	-	No	PH02	4	4					
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH01		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	5,480	-	No	BH01	1	1	SP-SM	0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	3,164	-	No			2					
Dry	3,164	-	No			3					
						4					
Dry	2,268	-	No	BH01	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH02		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	BDL	-	No	BH02	1	1	SP-SM	0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No			2					
Dry	280	-	No			3					
						4					
Dry	144	-	No	BH02	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH03		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	120	-	No	BH03	1	1	SP-SM	0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	300	-	No			2					
Dry	624	-	No			3					
						4					
Dry	624	-	No	BH03	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH05		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No	BH05	1	1	SP-SM				
Dry	BDL	-	No			2					
Dry	BDL	-	No			3					
						4					
Dry	BDL	-	No	BH05	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH04		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No	BH04	1	1	SP-SM				
Dry	BDL	-	No			2					
Dry	BDL	-	No			3					
						4					
Dry	300	-	No	BH04	4.5						
Total Depth											

 ENSOLUM								Sample Name: BH06		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
LITHOLOGIC / SOIL SAMPLING LOG								Hole Diameter: 2.5 inches		Total Depth: 4.5 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No	BH06	1	1	SP-SM				
Dry	BDL	-	No			2					
Dry	BDL	-	No			3					
						4					
Dry	BDL	-	No	BH06	4.5						
Total Depth											

								Sample Name: BH07		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
LITHOLOGIC / SOIL SAMPLING LOG								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
								Hole Diameter: 2.5 inches		Total Depth: 4.5 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No	BH07	1	1	SP-SM				
Dry	152	-	No			2					
Dry	BDL	-	No			3					
						4					
Dry	BDL	-	No	BH07	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH08		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	BDL	-	No	BH08	1	1	SP-SM				
Dry	BDL	-	No			2					
Dry	BDL	-	No			3					
						4					
Dry	316	-	No	BH08	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH09		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	BDL	-	No	BH09	1	1	SP-SM	0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	244	-	No			2					
Dry	588	-	No	BH09	3	3					
						4					
Dry	444	-	No	BH09	4.5						
Total Depth											

 LITHOLOGIC / SOIL SAMPLING LOG								Sample Name: BH10		Date: 05/19/2022	
								Site Name: Ross Draw Unit #034			
								Incident Number: NAB1528240224 (2RP-3322)			
								Job Number: 03A1987018			
								Logged By: LC		Method: Hand Auger	
Hole Diameter: 2.5 inches		Total Depth: 4.5 feet									
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to water. No correction factors included. BDL - Below Detection Limit. SAA - Same as Above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	BDL	-	No	BH10	1	1	SP-SM	0-4.5': dry, brown poorly-graded sand (f.) with gravel and silt, no odor, no stain, no plasticity, no cohesiveness			
Dry	128	-	No			2					
Dry	356	-	No	BH10	3	3					
						4					
Dry	316	-	No	BH10	4.5						
Total Depth											



APPENDIX D

Photographic Log

**Photographic Log**

WPX Energy Permian, LLC

Ross Draw Unit #034

Multiple Incident Numbers

Ensolum Job Number: 03A1987003



Photograph 1

Date: 5/18/2022

Description: Well pad, view south



Photograph 2

Date: 5/18/2022

Description: Wellhead and tank battery, view west



Photograph 3

Date: 5/18/2022

Description: Well pad, view northwest



Photograph 4

Date: 5/18/2022

Description: Pipeline right-of-way off pad, view west



APPENDIX E

Table



TABLE NUMBER
SOIL ANALYTICAL RESULTS
 WPX Energy Permian, LLC - Ross Draw Unit #034
 Eddy County, New Mexico

Ensolum Project No. 03A1987018

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 MRO (mg/kg)	Total GRO+DRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater >100 feet)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results - nAPP2107554265 and NAB1736055339 (2RP-4529)										
PH01	05/18/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,120
PH01	05/18/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,590
PH01	05/18/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,900
PH02	05/18/2022	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,290
PH02	05/18/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,400
PH02	05/18/2022	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	2,330
PH03	05/18/2022	0.5	<0.00201	<0.00402	61.8	<49.9	<49.9	<49.9	61.8	2,430
PH03	05/18/2022	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	2,160
PH04	05/18/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,340
PH04	05/18/2022	0.5	<0.000399	<0.000798	<50.0	<50.0	<50.0	<50.0	<50.0	1,140
PH05	05/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	533
PH05	05/18/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,040
PH06	05/18/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	37.5
PH06	05/18/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	34.2
PH07	05/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	24.6
PH07	05/18/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	42.8
PH08	05/18/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	101
PH08	05/18/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
PH09	05/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	63.4
PH09	05/18/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
PH10	05/19/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	32.5
PH10	05/19/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	63
PH11	05/19/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	22.8
PH11	05/19/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	87.8



TABLE NUMBER SOIL ANALYTICAL RESULTS WPX Energy Permian, LLC - Ross Draw Unit #034 Eddy County, New Mexico Ensolum Project No. 03A1987018

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 MRO (mg/kg)	Total GRO+DRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater >100 feet)			10	50	NE	NE	NE	1,000	2,500	20,000
PH12	05/19/2022	0.5	<0.00199	<0.00398	<50.0	141	<50.0	141	141	886
PH12	05/19/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	567
PH13	05/19/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	244
PH13	05/19/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	174
PH14	05/19/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	418
PH14	05/19/2022	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	387
Delineation Soil Sample Analytical Results - NAB1528240224 (2RP-3322)										
BH01	05/19/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,810
BH01	05/19/2022	4.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,430
BH02	05/19/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	76.2
BH02	05/19/2022	4.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	162
BH03	05/19/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	201
BH03	05/19/2022	4.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	932
BH04	05/19/2022	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.9
BH04	05/19/2022	4.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	416
BH05	05/19/2022	4.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	46.2
BH05	05/19/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	14.2
BH06	05/19/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	22.9
BH06	05/19/2022	4.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	38
BH07	05/19/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	23
BH07	05/19/2022	4.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	14.2
BH08	05/19/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22.5
BH08	05/19/2022	4.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	488
BH09	05/19/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.1
BH09	05/19/2022	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	654
BH09	05/19/2022	4.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	750



TABLE NUMBER
SOIL ANALYTICAL RESULTS
WPX Energy Permian, LLC - Ross Draw Unit #034
Eddy County, New Mexico

Ensolum Project No. 03A1987018

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 MRO (mg/kg)	Total GRO+DRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater >100 feet)			10	50	NE	NE	NE	1,000	2,500	20,000
BH10	05/19/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
BH10	05/19/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	470
BH10	05/19/2022	4.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	559

Notes:

bgs: below ground surface

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NS: Not Sampled

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Reclamation Requirement



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2327-1

Laboratory Sample Delivery Group: 03A1987018

Client Project/Site: Ross Draw Unit #034

For:

Ensolum
705 W. Wadley
Suite 210
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Attn: Anna Byers

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/31/2022 8:08:37 AM

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

Client: Ensolum
Project/Site: Ross Draw Unit #034

Laboratory Job ID: 890-2327-1
SDG: 03A1987018

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Definitions/Glossary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Job ID: 890-2327-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2327-1

Receipt

The samples were received on 5/20/2022 12:36 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 1.4°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-26098 and analytical batch 880-26081 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-25990/1-A). 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: PH01 (890-2327-1). 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: PH02 (890-2327-4) and PH02 (890-2327-5). 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: PH03 (890-2327-8). 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: PH04 (890-2327-10). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-26029/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-2327-7) and PH03 (890-2327-8). 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: PH08 (890-2327-17). 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: PH10 (890-2327-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26030 and analytical batch 880-26020 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. The MS/MSD RPD passes therefore shows recovery for the batch.

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 880-26084 and 880-26084 and analytical batch 880-26199 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.

Case Narrative

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Job ID: 890-2327-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26085 and analytical batch 880-26234 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-26091 and 880-26091 and analytical batch 880-26235 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: PH12 (890-2327-25), PH12 (890-2327-26), PH13 (890-2327-27), PH13 (890-2327-28), PH14 (890-2327-29), PH14 (890-2327-30) and (890-2327-A-25-C MS).

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

Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH01

Lab Sample ID: 890-2327-1

Date Collected: 05/18/22 10:50

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 17:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 17:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 17:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/22 15:46	05/23/22 17:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 17:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/22 15:46	05/23/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/20/22 15:46	05/23/22 17:57	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/20/22 15:46	05/23/22 17:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 11:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/23/22 08:25	05/23/22 11:07	1
o-Terphenyl	119		70 - 130	05/23/22 08:25	05/23/22 11:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.00		mg/Kg			05/25/22 09:04	1

Client Sample ID: PH01

Lab Sample ID: 890-2327-2

Date Collected: 05/18/22 10:55

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 18:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 18:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/22 15:46	05/23/22 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 18:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/22 15:46	05/23/22 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	05/20/22 15:46	05/23/22 18:23	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH01

Lab Sample ID: 890-2327-2

Date Collected: 05/18/22 10:55

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	05/20/22 15:46	05/23/22 18:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/23/22 08:25	05/23/22 12:12	1
o-Terphenyl	118		70 - 130				05/23/22 08:25	05/23/22 12:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		25.0		mg/Kg			05/25/22 09:13	5

Client Sample ID: PH01

Lab Sample ID: 890-2327-3

Date Collected: 05/18/22 11:10

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 18:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 18:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 18:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 18:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	05/20/22 15:46	05/23/22 18:49	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/20/22 15:46	05/23/22 18:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH01

Lab Sample ID: 890-2327-3

Date Collected: 05/18/22 11:10

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/23/22 08:25	05/23/22 12:34	1
o-Terphenyl	121		70 - 130				05/23/22 08:25	05/23/22 12:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		25.1		mg/Kg			05/25/22 09:22	5

Client Sample ID: PH02

Lab Sample ID: 890-2327-4

Date Collected: 05/18/22 11:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/22 15:46	05/23/22 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				05/20/22 15:46	05/23/22 19:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/20/22 15:46	05/23/22 19:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/23/22 08:25	05/23/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/23/22 08:25	05/23/22 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/22 08:25	05/23/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/23/22 08:25	05/23/22 12:56	1
o-Terphenyl	116		70 - 130				05/23/22 08:25	05/23/22 12:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH02

Lab Sample ID: 890-2327-4

Date Collected: 05/18/22 11:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		25.1		mg/Kg			05/25/22 09:32	5

Client Sample ID: PH02

Lab Sample ID: 890-2327-5

Date Collected: 05/18/22 11:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				05/20/22 15:46	05/23/22 19:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/20/22 15:46	05/23/22 19:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:25	05/23/22 13:18	1
o-Terphenyl	120		70 - 130				05/23/22 08:25	05/23/22 13:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400	F1	25.3		mg/Kg			05/26/22 17:53	5

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH02

Lab Sample ID: 890-2327-6

Date Collected: 05/18/22 11:35

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 20:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 20:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 20:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 20:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 20:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	05/20/22 15:46	05/23/22 20:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/20/22 15:46	05/23/22 20:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/23/22 08:25	05/23/22 13:40	1
o-Terphenyl	130		70 - 130	05/23/22 08:25	05/23/22 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2330		25.0		mg/Kg			05/26/22 18:21	5

Client Sample ID: PH03

Lab Sample ID: 890-2327-7

Date Collected: 05/18/22 12:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 20:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 20:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 20:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/22 15:46	05/23/22 20:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/22 15:46	05/23/22 20:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/22 15:46	05/23/22 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	05/20/22 15:46	05/23/22 20:35	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH03

Lab Sample ID: 890-2327-7

Date Collected: 05/18/22 12:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	05/20/22 15:46	05/23/22 20:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.8		49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.8		49.9		mg/Kg		05/23/22 08:25	05/23/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/23/22 08:25	05/23/22 14:02	1
o-Terphenyl	131	S1+	70 - 130				05/23/22 08:25	05/23/22 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2430		25.0		mg/Kg			05/26/22 18:30	5

Client Sample ID: PH03

Lab Sample ID: 890-2327-8

Date Collected: 05/18/22 12:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/22 15:46	05/23/22 21:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/22 15:46	05/23/22 21:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/22 15:46	05/23/22 21:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/22 15:46	05/23/22 21:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/22 15:46	05/23/22 21:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/22 15:46	05/23/22 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	05/20/22 15:46	05/23/22 21:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/20/22 15:46	05/23/22 21:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH03

Lab Sample ID: 890-2327-8

Date Collected: 05/18/22 12:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				05/23/22 08:25	05/23/22 14:24	1
o-Terphenyl	138	S1+	70 - 130				05/23/22 08:25	05/23/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2160		24.8		mg/Kg			05/26/22 18:39	5

Client Sample ID: PH04

Lab Sample ID: 890-2327-9

Date Collected: 05/18/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000399	U	0.000399		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
Toluene	<0.000399	U	0.000399		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
Ethylbenzene	<0.000399	U	0.000399		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
m-Xylene & p-Xylene	<0.000798	U	0.000798		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
o-Xylene	<0.000399	U	0.000399		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
Xylenes, Total	<0.000798	U	0.000798		mg/Kg		05/20/22 15:46	05/23/22 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				05/20/22 15:46	05/23/22 21:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/20/22 15:46	05/23/22 21:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000798	U	0.000798		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:25	05/23/22 14:46	1
o-Terphenyl	122		70 - 130				05/23/22 08:25	05/23/22 14:46	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH04

Lab Sample ID: 890-2327-9

Date Collected: 05/18/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		25.2		mg/Kg			05/26/22 18:48	5

Client Sample ID: PH04

Lab Sample ID: 890-2327-10

Date Collected: 05/18/22 13:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/22 15:46	05/23/22 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				05/20/22 15:46	05/23/22 21:52	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/20/22 15:46	05/23/22 21:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:25	05/23/22 15:08	1
o-Terphenyl	121		70 - 130				05/23/22 08:25	05/23/22 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		24.9		mg/Kg			05/26/22 19:16	5

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH05

Lab Sample ID: 890-2327-11

Date Collected: 05/18/22 13:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:17	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:17	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		05/23/22 12:18	05/24/22 06:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/23/22 12:18	05/24/22 06:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/23/22 12:18	05/24/22 06:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 16:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/23/22 08:25	05/23/22 16:59	1
o-Terphenyl	121		70 - 130	05/23/22 08:25	05/23/22 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		24.8		mg/Kg			05/26/22 19:25	5

Client Sample ID: PH05

Lab Sample ID: 890-2327-12

Date Collected: 05/18/22 13:20

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 06:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 06:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/23/22 12:18	05/24/22 06:38	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH05

Lab Sample ID: 890-2327-12

Date Collected: 05/18/22 13:20

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/23/22 12:18	05/24/22 06:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				05/23/22 08:25	05/23/22 17:21	1
o-Terphenyl	130		70 - 130				05/23/22 08:25	05/23/22 17:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		25.0		mg/Kg			05/26/22 19:34	5

Client Sample ID: PH06

Lab Sample ID: 890-2327-13

Date Collected: 05/18/22 13:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 06:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 06:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 06:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 06:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 06:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	05/23/22 12:18	05/24/22 06:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/23/22 12:18	05/24/22 06:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH06

Lab Sample ID: 890-2327-13

Date Collected: 05/18/22 13:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:25	05/23/22 17:42	1
o-Terphenyl	123		70 - 130				05/23/22 08:25	05/23/22 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.5		5.01		mg/Kg			05/26/22 19:44	1

Client Sample ID: PH06

Lab Sample ID: 890-2327-14

Date Collected: 05/18/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				05/23/22 12:18	05/24/22 07:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/23/22 12:18	05/24/22 07:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:25	05/23/22 18:03	1
o-Terphenyl	125		70 - 130				05/23/22 08:25	05/23/22 18:03	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH06

Lab Sample ID: 890-2327-14

Date Collected: 05/18/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.2		4.98		mg/Kg			05/27/22 10:41	1

Client Sample ID: PH07

Lab Sample ID: 890-2327-15

Date Collected: 05/18/22 13:45

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 07:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				05/23/22 12:18	05/24/22 07:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/23/22 12:18	05/24/22 07:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/23/22 08:25	05/23/22 18:25	1
o-Terphenyl	119		70 - 130				05/23/22 08:25	05/23/22 18:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.6		5.02		mg/Kg			05/26/22 20:02	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH07

Lab Sample ID: 890-2327-16

Date Collected: 05/18/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 08:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/23/22 12:18	05/24/22 08:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/23/22 12:18	05/24/22 08:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	05/23/22 08:25	05/23/22 18:47	1
o-Terphenyl	128		70 - 130	05/23/22 08:25	05/23/22 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.8		4.99		mg/Kg			05/26/22 20:30	1

Client Sample ID: PH08

Lab Sample ID: 890-2327-17

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 08:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 08:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 08:21	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/22 12:18	05/24/22 08:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 08:21	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/22 12:18	05/24/22 08:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/23/22 12:18	05/24/22 08:21	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH08

Lab Sample ID: 890-2327-17

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	05/23/22 12:18	05/24/22 08:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/23/22 08:25	05/23/22 19:09	1
o-Terphenyl	141	S1+	70 - 130				05/23/22 08:25	05/23/22 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/Kg			05/26/22 20:39	1

Client Sample ID: PH08

Lab Sample ID: 890-2327-18

Date Collected: 05/18/22 14:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 08:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 08:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 08:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/23/22 12:18	05/24/22 08:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/23/22 12:18	05/24/22 08:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH08

Lab Sample ID: 890-2327-18

Date Collected: 05/18/22 14:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:25	05/23/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:25	05/23/22 19:31	1
o-Terphenyl	122		70 - 130				05/23/22 08:25	05/23/22 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.98		mg/Kg			05/26/22 21:07	1

Client Sample ID: PH09

Lab Sample ID: 890-2327-19

Date Collected: 05/18/22 14:10

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 09:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/23/22 12:18	05/24/22 09:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/23/22 12:18	05/24/22 09:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 19:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/23/22 08:25	05/23/22 19:52	1
o-Terphenyl	125		70 - 130				05/23/22 08:25	05/23/22 19:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH09

Lab Sample ID: 890-2327-19

Date Collected: 05/18/22 14:10

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4		4.97		mg/Kg			05/26/22 21:16	1

Client Sample ID: PH09

Lab Sample ID: 890-2327-20

Date Collected: 05/18/22 14:15

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 09:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				05/23/22 12:18	05/24/22 09:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/23/22 12:18	05/24/22 09:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/23/22 08:25	05/23/22 20:14	1
o-Terphenyl	130		70 - 130				05/23/22 08:25	05/23/22 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		5.00		mg/Kg			05/26/22 21:25	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH10

Lab Sample ID: 890-2327-21

Date Collected: 05/19/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 10:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 10:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 10:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/23/22 12:18	05/24/22 10:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 10:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/23/22 12:18	05/24/22 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/23/22 12:18	05/24/22 10:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/23/22 12:18	05/24/22 10:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	05/23/22 08:26	05/23/22 11:08	1
o-Terphenyl	140	S1+	70 - 130	05/23/22 08:26	05/23/22 11:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.5		5.00		mg/Kg			05/26/22 21:35	1

Client Sample ID: PH10

Lab Sample ID: 890-2327-22

Date Collected: 05/19/22 03:35

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 12:18	05/24/22 11:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 12:18	05/24/22 11:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 12:18	05/24/22 11:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 12:18	05/24/22 11:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 12:18	05/24/22 11:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 12:18	05/24/22 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/23/22 12:18	05/24/22 11:08	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH10

Lab Sample ID: 890-2327-22

Date Collected: 05/19/22 03:35

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	05/23/22 12:18	05/24/22 11:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:26	05/23/22 12:13	1
o-Terphenyl	114		70 - 130				05/23/22 08:26	05/23/22 12:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.0		5.04		mg/Kg			05/26/22 21:44	1

Client Sample ID: PH11

Lab Sample ID: 890-2327-23

Date Collected: 05/19/22 13:45

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/23/22 12:18	05/24/22 11:28	1
Toluene	0.00264		0.00202		mg/Kg		05/23/22 12:18	05/24/22 11:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/23/22 12:18	05/24/22 11:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/23/22 12:18	05/24/22 11:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/23/22 12:18	05/24/22 11:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/23/22 12:18	05/24/22 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	05/23/22 12:18	05/24/22 11:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/23/22 12:18	05/24/22 11:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH11

Lab Sample ID: 890-2327-23

Date Collected: 05/19/22 13:45

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/23/22 08:26	05/23/22 12:35	1
o-Terphenyl	118		70 - 130				05/23/22 08:26	05/23/22 12:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		5.01		mg/Kg			05/27/22 07:46	1

Client Sample ID: PH11

Lab Sample ID: 890-2327-24

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/23/22 12:18	05/24/22 11:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/23/22 12:18	05/24/22 11:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:26	05/23/22 12:56	1
o-Terphenyl	117		70 - 130				05/23/22 08:26	05/23/22 12:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH11

Lab Sample ID: 890-2327-24

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.8		4.99		mg/Kg			05/27/22 07:55	1

Client Sample ID: PH12

Lab Sample ID: 890-2327-25

Date Collected: 05/19/22 14:05

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/23/22 12:18	05/24/22 12:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130				05/23/22 12:18	05/24/22 12:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Diesel Range Organics (Over C10-C28)	141		50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/23/22 08:26	05/23/22 13:18	1
o-Terphenyl	112		70 - 130				05/23/22 08:26	05/23/22 13:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	886	F1	4.96		mg/Kg			05/27/22 09:09	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH12

Lab Sample ID: 890-2327-26

Date Collected: 05/19/22 14:10

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 12:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 12:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/23/22 12:18	05/24/22 12:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/23/22 12:18	05/24/22 12:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/23/22 08:26	05/23/22 13:40	1
o-Terphenyl	113		70 - 130	05/23/22 08:26	05/23/22 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	567		5.00		mg/Kg			05/27/22 11:27	1

Client Sample ID: PH13

Lab Sample ID: 890-2327-27

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 12:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/23/22 12:18	05/24/22 12:51	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH13

Lab Sample ID: 890-2327-27

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	05/23/22 12:18	05/24/22 12:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/23/22 08:26	05/23/22 14:02	1
o-Terphenyl	110		70 - 130				05/23/22 08:26	05/23/22 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244		4.99		mg/Kg			05/27/22 11:36	1

Client Sample ID: PH13

Lab Sample ID: 890-2327-28

Date Collected: 05/19/22 14:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 13:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 13:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 13:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 13:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 12:18	05/24/22 13:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 12:18	05/24/22 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/23/22 12:18	05/24/22 13:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	05/23/22 12:18	05/24/22 13:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH13

Lab Sample ID: 890-2327-28

Date Collected: 05/19/22 14:30

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				05/23/22 08:26	05/23/22 14:24	1
o-Terphenyl	121		70 - 130				05/23/22 08:26	05/23/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		5.05		mg/Kg			05/27/22 11:45	1

Client Sample ID: PH14

Lab Sample ID: 890-2327-29

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 12:18	05/24/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/23/22 12:18	05/24/22 13:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130				05/23/22 12:18	05/24/22 13:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:26	05/23/22 14:46	1
o-Terphenyl	118		70 - 130				05/23/22 08:26	05/23/22 14:46	1

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Client Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH14

Lab Sample ID: 890-2327-29

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		4.97		mg/Kg			05/27/22 11:54	1

Client Sample ID: PH14

Lab Sample ID: 890-2327-30

Date Collected: 05/19/22 14:40

Matrix: Solid

Date Received: 05/20/22 12:36

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/22 12:18	05/24/22 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				05/23/22 12:18	05/24/22 13:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130				05/23/22 12:18	05/24/22 13:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/24/22 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:26	05/23/22 15:07	1
o-Terphenyl	111		70 - 130				05/23/22 08:26	05/23/22 15:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		4.98		mg/Kg			05/27/22 12:46	1

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Surrogate Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2327-1	PH01	133 S1+	91
890-2327-1 MS	PH01	125	88
890-2327-1 MSD	PH01	120	92
890-2327-2	PH01	123	87
890-2327-3	PH01	130	94
890-2327-4	PH02	137 S1+	100
890-2327-5	PH02	133 S1+	98
890-2327-6	PH02	127	95
890-2327-7	PH03	125	87
890-2327-8	PH03	140 S1+	88
890-2327-9	PH04	125	96
890-2327-10	PH04	136 S1+	91
890-2327-11	PH05	95	94
890-2327-11 MS	PH05	104	101
890-2327-11 MSD	PH05	98	100
890-2327-12	PH05	120	92
890-2327-13	PH06	121	94
890-2327-14	PH06	121	93
890-2327-15	PH07	115	99
890-2327-16	PH07	116	90
890-2327-17	PH08	104	100
890-2327-18	PH08	113	98
890-2327-19	PH09	107	97
890-2327-20	PH09	119	95
890-2327-21	PH10	99	102
890-2327-22	PH10	103	99
890-2327-23	PH11	126	95
890-2327-24	PH11	105	100
890-2327-25	PH12	109	105
890-2327-26	PH12	108	100
890-2327-27	PH13	102	102
890-2327-28	PH13	102	106
890-2327-29	PH14	105	107
890-2327-30	PH14	98	107
LCS 880-25990/1-A	Lab Control Sample	133 S1+	98
LCS 880-26098/1-A	Lab Control Sample	107	99
LCSD 880-25990/2-A	Lab Control Sample Dup	123	89
LCSD 880-26098/2-A	Lab Control Sample Dup	97	100
MB 880-25990/5-A	Method Blank	91	89
MB 880-25991/5-A	Method Blank	104	99
MB 880-26098/5-A	Method Blank	104	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2327-1	PH01	105	119
890-2327-1 MS	PH01	102	100
890-2327-1 MSD	PH01	106	105
890-2327-2	PH01	105	118
890-2327-3	PH01	108	121
890-2327-4	PH02	105	116
890-2327-5	PH02	106	120
890-2327-6	PH02	111	130
890-2327-7	PH03	122	131 S1+
890-2327-8	PH03	126	138 S1+
890-2327-9	PH04	110	122
890-2327-10	PH04	106	121
890-2327-11	PH05	105	121
890-2327-12	PH05	111	130
890-2327-13	PH06	110	123
890-2327-14	PH06	110	125
890-2327-15	PH07	107	119
890-2327-16	PH07	110	128
890-2327-17	PH08	122	141 S1+
890-2327-18	PH08	106	122
890-2327-19	PH09	107	125
890-2327-20	PH09	109	130
890-2327-21	PH10	133 S1+	140 S1+
890-2327-21 MS	PH10	115	114
890-2327-21 MSD	PH10	103	101
890-2327-22	PH10	110	114
890-2327-23	PH11	109	118
890-2327-24	PH11	110	117
890-2327-25	PH12	107	112
890-2327-26	PH12	108	113
890-2327-27	PH13	105	110
890-2327-28	PH13	115	121
890-2327-29	PH14	110	118
890-2327-30	PH14	106	111
LCS 880-26029/2-A	Lab Control Sample	118	125
LCS 880-26030/2-A	Lab Control Sample	130	130
LCSD 880-26029/3-A	Lab Control Sample Dup	117	118
LCSD 880-26030/3-A	Lab Control Sample Dup	110	110
MB 880-26029/1-A	Method Blank	128	156 S1+
MB 880-26030/1-A	Method Blank	107	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25990/5-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/20/22 15:46	05/23/22 17:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/20/22 15:46	05/23/22 17:31	1

Lab Sample ID: LCS 880-25990/1-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1157		mg/Kg		116	70 - 130
Toluene	0.100	0.1180		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2405		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-25990/2-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	8	35
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	9	35
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2327-1 MS

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09613		mg/Kg		96	70 - 130
Toluene	<0.00201	U	0.100	0.09530		mg/Kg		95	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: 890-2327-1 MS

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08810		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1722		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U	0.100	0.08471		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-2327-1 MSD

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09841		mg/Kg		99	70 - 130	2	35
Toluene	<0.00201	U	0.0998	0.09590		mg/Kg		96	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.09046		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1805		mg/Kg		90	70 - 130	5	35
o-Xylene	<0.00201	U	0.0998	0.08776		mg/Kg		88	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-25991/5-A

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:50	05/23/22 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:50	05/23/22 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:50	05/23/22 19:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 15:50	05/23/22 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:50	05/23/22 19:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 15:50	05/23/22 19:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/20/22 15:50	05/23/22 19:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/20/22 15:50	05/23/22 19:15	1

Lab Sample ID: MB 880-26098/5-A

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 05:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 05:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 05:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 12:18	05/24/22 05:55	1

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: MB 880-26098/5-A

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 12:18	05/24/22 05:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 12:18	05/24/22 05:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/23/22 12:18	05/24/22 05:55	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/23/22 12:18	05/24/22 05:55	1

Lab Sample ID: LCS 880-26098/1-A

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08546		mg/Kg		85	70 - 130
Toluene	0.100	0.08792		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.07919		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1609		mg/Kg		80	70 - 130
o-Xylene	0.100	0.09101		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-26098/2-A

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09427		mg/Kg		94	70 - 130	10	35
Toluene	0.100	0.09093		mg/Kg		91	70 - 130	3	35
Ethylbenzene	0.100	0.07933		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1577		mg/Kg		79	70 - 130	2	35
o-Xylene	0.100	0.08423		mg/Kg		84	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2327-11 MS

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: PH05

Prep Type: Total/NA

Prep Batch: 26098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07627		mg/Kg		76	70 - 130
Toluene	<0.00199	U	0.0998	0.07667		mg/Kg		77	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.06689	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1385	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07339		mg/Kg		74	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: 890-2327-11 MS

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: PH05

Prep Type: Total/NA

Prep Batch: 26098

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

Lab Sample ID: 890-2327-11 MSD

Matrix: Solid

Analysis Batch: 26081

Client Sample ID: PH05

Prep Type: Total/NA

Prep Batch: 26098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08470		mg/Kg		85	70 - 130	10	35
Toluene	<0.00199	U	0.100	0.08310		mg/Kg		83	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.100	0.07231		mg/Kg		72	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1476		mg/Kg		74	70 - 130	6	35
o-Xylene	<0.00199	U	0.100	0.07620		mg/Kg		76	70 - 130	4	35

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

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

Lab Sample ID: MB 880-26029/1-A

Matrix: Solid

Analysis Batch: 26026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 09:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 09:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:25	05/23/22 09:53	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	128		70 - 130	05/23/22 08:25	05/23/22 09:53	1			
o-Terphenyl	156	S1+	70 - 130	05/23/22 08:25	05/23/22 09:53	1			

Lab Sample ID: LCS 880-26029/2-A

Matrix: Solid

Analysis Batch: 26026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	843.2		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	960.2		mg/Kg		96	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	125		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: LCSD 880-26029/3-A

Matrix: Solid

Analysis Batch: 26026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	867.1		mg/Kg		87	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: 890-2327-1 MS

Matrix: Solid

Analysis Batch: 26026

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 26029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	947.4		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1058		mg/Kg		103	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: 890-2327-1 MSD

Matrix: Solid

Analysis Batch: 26026

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 26029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	873.9		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1128		mg/Kg		110	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: MB 880-26030/1-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: MB 880-26030/1-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26030

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/23/22 08:26	05/23/22 10:03	1
o-Terphenyl	114		70 - 130	05/23/22 08:26	05/23/22 10:03	1

Lab Sample ID: LCS 880-26030/2-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26030

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1058		mg/Kg		106	70 - 130		

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

Lab Sample ID: LCSD 880-26030/3-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26030

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.8	*1	mg/Kg		84	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	877.5		mg/Kg		88	70 - 130	19	20

Lab Sample ID: 890-2327-21 MS

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: PH10

Prep Type: Total/NA

Prep Batch: 26030

	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 *1	1000	1181		mg/Kg		115	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1228		mg/Kg		123	70 - 130	

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	115		70 - 130			
o-Terphenyl	114		70 - 130			

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

Lab Sample ID: 890-2327-21 MSD

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: PH10

Prep Type: Total/NA

Prep Batch: 26030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	999	1023		mg/Kg		100	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1081		mg/Kg		108	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	101		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26084/1-A

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/25/22 04:55	1

Lab Sample ID: LCS 880-26084/2-A

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-26084/3-A

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.6		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 890-2323-A-1-C MS

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	233		249	458.2		mg/Kg		91	90 - 110

Lab Sample ID: 890-2323-A-1-D MSD

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	233		249	477.2		mg/Kg		98	90 - 110	4	20

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2326-A-1-C MS

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8780	F1	5050	15820	F1	mg/Kg		139	90 - 110

Lab Sample ID: 890-2326-A-1-D MSD

Matrix: Solid

Analysis Batch: 26199

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8780	F1	5050	16220	F1	mg/Kg		147	90 - 110	2	20

Lab Sample ID: MB 880-26085/1-A

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/26/22 17:26	1

Lab Sample ID: LCS 880-26085/2-A

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-26085/3-A

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2327-5 MS

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2400	F1	1260	3754		mg/Kg		107	90 - 110

Lab Sample ID: 890-2327-5 MSD

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2400	F1	1260	3868	F1	mg/Kg		116	90 - 110	3	20

Lab Sample ID: 890-2327-15 MS

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: PH07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	24.6		251	281.8		mg/Kg		102	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2327-15 MSD

Matrix: Solid

Analysis Batch: 26234

Client Sample ID: PH07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24.6		251	285.3		mg/Kg		104	90 - 110	1	20

Lab Sample ID: MB 880-26091/1-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/27/22 08:41	1

Lab Sample ID: LCS 880-26091/2-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-26091/3-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-2327-25 MS

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: PH12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	886	F1	248	1107	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-2327-25 MSD

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: PH12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	886	F1	248	1121		mg/Kg		95	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

GC VOA

Prep Batch: 25990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	5035	
890-2327-2	PH01	Total/NA	Solid	5035	
890-2327-3	PH01	Total/NA	Solid	5035	
890-2327-4	PH02	Total/NA	Solid	5035	
890-2327-5	PH02	Total/NA	Solid	5035	
890-2327-6	PH02	Total/NA	Solid	5035	
890-2327-7	PH03	Total/NA	Solid	5035	
890-2327-8	PH03	Total/NA	Solid	5035	
890-2327-9	PH04	Total/NA	Solid	5035	
890-2327-10	PH04	Total/NA	Solid	5035	
MB 880-25990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2327-1 MS	PH01	Total/NA	Solid	5035	
890-2327-1 MSD	PH01	Total/NA	Solid	5035	

Prep Batch: 25991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25991/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 26081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-11	PH05	Total/NA	Solid	8021B	26098
890-2327-12	PH05	Total/NA	Solid	8021B	26098
890-2327-13	PH06	Total/NA	Solid	8021B	26098
890-2327-14	PH06	Total/NA	Solid	8021B	26098
890-2327-15	PH07	Total/NA	Solid	8021B	26098
890-2327-16	PH07	Total/NA	Solid	8021B	26098
890-2327-17	PH08	Total/NA	Solid	8021B	26098
890-2327-18	PH08	Total/NA	Solid	8021B	26098
890-2327-19	PH09	Total/NA	Solid	8021B	26098
890-2327-20	PH09	Total/NA	Solid	8021B	26098
890-2327-21	PH10	Total/NA	Solid	8021B	26098
890-2327-22	PH10	Total/NA	Solid	8021B	26098
890-2327-23	PH11	Total/NA	Solid	8021B	26098
890-2327-24	PH11	Total/NA	Solid	8021B	26098
890-2327-25	PH12	Total/NA	Solid	8021B	26098
890-2327-26	PH12	Total/NA	Solid	8021B	26098
890-2327-27	PH13	Total/NA	Solid	8021B	26098
890-2327-28	PH13	Total/NA	Solid	8021B	26098
890-2327-29	PH14	Total/NA	Solid	8021B	26098
890-2327-30	PH14	Total/NA	Solid	8021B	26098
MB 880-25991/5-A	Method Blank	Total/NA	Solid	8021B	25991
MB 880-26098/5-A	Method Blank	Total/NA	Solid	8021B	26098
LCS 880-26098/1-A	Lab Control Sample	Total/NA	Solid	8021B	26098
LCSD 880-26098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26098
890-2327-11 MS	PH05	Total/NA	Solid	8021B	26098
890-2327-11 MSD	PH05	Total/NA	Solid	8021B	26098

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

GC VOA

Analysis Batch: 26082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	8021B	25990
890-2327-2	PH01	Total/NA	Solid	8021B	25990
890-2327-3	PH01	Total/NA	Solid	8021B	25990
890-2327-4	PH02	Total/NA	Solid	8021B	25990
890-2327-5	PH02	Total/NA	Solid	8021B	25990
890-2327-6	PH02	Total/NA	Solid	8021B	25990
890-2327-7	PH03	Total/NA	Solid	8021B	25990
890-2327-8	PH03	Total/NA	Solid	8021B	25990
890-2327-9	PH04	Total/NA	Solid	8021B	25990
890-2327-10	PH04	Total/NA	Solid	8021B	25990
MB 880-25990/5-A	Method Blank	Total/NA	Solid	8021B	25990
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	8021B	25990
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25990
890-2327-1 MS	PH01	Total/NA	Solid	8021B	25990
890-2327-1 MSD	PH01	Total/NA	Solid	8021B	25990

Prep Batch: 26098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-11	PH05	Total/NA	Solid	5035	
890-2327-12	PH05	Total/NA	Solid	5035	
890-2327-13	PH06	Total/NA	Solid	5035	
890-2327-14	PH06	Total/NA	Solid	5035	
890-2327-15	PH07	Total/NA	Solid	5035	
890-2327-16	PH07	Total/NA	Solid	5035	
890-2327-17	PH08	Total/NA	Solid	5035	
890-2327-18	PH08	Total/NA	Solid	5035	
890-2327-19	PH09	Total/NA	Solid	5035	
890-2327-20	PH09	Total/NA	Solid	5035	
890-2327-21	PH10	Total/NA	Solid	5035	
890-2327-22	PH10	Total/NA	Solid	5035	
890-2327-23	PH11	Total/NA	Solid	5035	
890-2327-24	PH11	Total/NA	Solid	5035	
890-2327-25	PH12	Total/NA	Solid	5035	
890-2327-26	PH12	Total/NA	Solid	5035	
890-2327-27	PH13	Total/NA	Solid	5035	
890-2327-28	PH13	Total/NA	Solid	5035	
890-2327-29	PH14	Total/NA	Solid	5035	
890-2327-30	PH14	Total/NA	Solid	5035	
MB 880-26098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2327-11 MS	PH05	Total/NA	Solid	5035	
890-2327-11 MSD	PH05	Total/NA	Solid	5035	

Analysis Batch: 26129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	Total BTEX	
890-2327-2	PH01	Total/NA	Solid	Total BTEX	
890-2327-3	PH01	Total/NA	Solid	Total BTEX	
890-2327-4	PH02	Total/NA	Solid	Total BTEX	
890-2327-5	PH02	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

GC VOA (Continued)

Analysis Batch: 26129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-6	PH02	Total/NA	Solid	Total BTEX	
890-2327-7	PH03	Total/NA	Solid	Total BTEX	
890-2327-8	PH03	Total/NA	Solid	Total BTEX	
890-2327-9	PH04	Total/NA	Solid	Total BTEX	
890-2327-10	PH04	Total/NA	Solid	Total BTEX	
890-2327-11	PH05	Total/NA	Solid	Total BTEX	
890-2327-12	PH05	Total/NA	Solid	Total BTEX	
890-2327-13	PH06	Total/NA	Solid	Total BTEX	
890-2327-14	PH06	Total/NA	Solid	Total BTEX	
890-2327-15	PH07	Total/NA	Solid	Total BTEX	
890-2327-16	PH07	Total/NA	Solid	Total BTEX	
890-2327-17	PH08	Total/NA	Solid	Total BTEX	
890-2327-18	PH08	Total/NA	Solid	Total BTEX	
890-2327-19	PH09	Total/NA	Solid	Total BTEX	
890-2327-20	PH09	Total/NA	Solid	Total BTEX	
890-2327-21	PH10	Total/NA	Solid	Total BTEX	
890-2327-22	PH10	Total/NA	Solid	Total BTEX	
890-2327-23	PH11	Total/NA	Solid	Total BTEX	
890-2327-24	PH11	Total/NA	Solid	Total BTEX	
890-2327-25	PH12	Total/NA	Solid	Total BTEX	
890-2327-26	PH12	Total/NA	Solid	Total BTEX	
890-2327-27	PH13	Total/NA	Solid	Total BTEX	
890-2327-28	PH13	Total/NA	Solid	Total BTEX	
890-2327-29	PH14	Total/NA	Solid	Total BTEX	
890-2327-30	PH14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-21	PH10	Total/NA	Solid	8015B NM	26030
890-2327-22	PH10	Total/NA	Solid	8015B NM	26030
890-2327-23	PH11	Total/NA	Solid	8015B NM	26030
890-2327-24	PH11	Total/NA	Solid	8015B NM	26030
890-2327-25	PH12	Total/NA	Solid	8015B NM	26030
890-2327-26	PH12	Total/NA	Solid	8015B NM	26030
890-2327-27	PH13	Total/NA	Solid	8015B NM	26030
890-2327-28	PH13	Total/NA	Solid	8015B NM	26030
890-2327-29	PH14	Total/NA	Solid	8015B NM	26030
890-2327-30	PH14	Total/NA	Solid	8015B NM	26030
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015B NM	26030
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26030
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26030
890-2327-21 MS	PH10	Total/NA	Solid	8015B NM	26030
890-2327-21 MSD	PH10	Total/NA	Solid	8015B NM	26030

Analysis Batch: 26026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	8015B NM	26029
890-2327-2	PH01	Total/NA	Solid	8015B NM	26029
890-2327-3	PH01	Total/NA	Solid	8015B NM	26029

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

GC Semi VOA (Continued)

Analysis Batch: 26026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-4	PH02	Total/NA	Solid	8015B NM	26029
890-2327-5	PH02	Total/NA	Solid	8015B NM	26029
890-2327-6	PH02	Total/NA	Solid	8015B NM	26029
890-2327-7	PH03	Total/NA	Solid	8015B NM	26029
890-2327-8	PH03	Total/NA	Solid	8015B NM	26029
890-2327-9	PH04	Total/NA	Solid	8015B NM	26029
890-2327-10	PH04	Total/NA	Solid	8015B NM	26029
890-2327-11	PH05	Total/NA	Solid	8015B NM	26029
890-2327-12	PH05	Total/NA	Solid	8015B NM	26029
890-2327-13	PH06	Total/NA	Solid	8015B NM	26029
890-2327-14	PH06	Total/NA	Solid	8015B NM	26029
890-2327-15	PH07	Total/NA	Solid	8015B NM	26029
890-2327-16	PH07	Total/NA	Solid	8015B NM	26029
890-2327-17	PH08	Total/NA	Solid	8015B NM	26029
890-2327-18	PH08	Total/NA	Solid	8015B NM	26029
890-2327-19	PH09	Total/NA	Solid	8015B NM	26029
890-2327-20	PH09	Total/NA	Solid	8015B NM	26029
MB 880-26029/1-A	Method Blank	Total/NA	Solid	8015B NM	26029
LCS 880-26029/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26029
LCSD 880-26029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26029
890-2327-1 MS	PH01	Total/NA	Solid	8015B NM	26029
890-2327-1 MSD	PH01	Total/NA	Solid	8015B NM	26029

Prep Batch: 26029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	8015NM Prep	
890-2327-2	PH01	Total/NA	Solid	8015NM Prep	
890-2327-3	PH01	Total/NA	Solid	8015NM Prep	
890-2327-4	PH02	Total/NA	Solid	8015NM Prep	
890-2327-5	PH02	Total/NA	Solid	8015NM Prep	
890-2327-6	PH02	Total/NA	Solid	8015NM Prep	
890-2327-7	PH03	Total/NA	Solid	8015NM Prep	
890-2327-8	PH03	Total/NA	Solid	8015NM Prep	
890-2327-9	PH04	Total/NA	Solid	8015NM Prep	
890-2327-10	PH04	Total/NA	Solid	8015NM Prep	
890-2327-11	PH05	Total/NA	Solid	8015NM Prep	
890-2327-12	PH05	Total/NA	Solid	8015NM Prep	
890-2327-13	PH06	Total/NA	Solid	8015NM Prep	
890-2327-14	PH06	Total/NA	Solid	8015NM Prep	
890-2327-15	PH07	Total/NA	Solid	8015NM Prep	
890-2327-16	PH07	Total/NA	Solid	8015NM Prep	
890-2327-17	PH08	Total/NA	Solid	8015NM Prep	
890-2327-18	PH08	Total/NA	Solid	8015NM Prep	
890-2327-19	PH09	Total/NA	Solid	8015NM Prep	
890-2327-20	PH09	Total/NA	Solid	8015NM Prep	
MB 880-26029/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26029/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2327-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2327-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

GC Semi VOA

Prep Batch: 26030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-21	PH10	Total/NA	Solid	8015NM Prep	
890-2327-22	PH10	Total/NA	Solid	8015NM Prep	
890-2327-23	PH11	Total/NA	Solid	8015NM Prep	
890-2327-24	PH11	Total/NA	Solid	8015NM Prep	
890-2327-25	PH12	Total/NA	Solid	8015NM Prep	
890-2327-26	PH12	Total/NA	Solid	8015NM Prep	
890-2327-27	PH13	Total/NA	Solid	8015NM Prep	
890-2327-28	PH13	Total/NA	Solid	8015NM Prep	
890-2327-29	PH14	Total/NA	Solid	8015NM Prep	
890-2327-30	PH14	Total/NA	Solid	8015NM Prep	
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2327-21 MS	PH10	Total/NA	Solid	8015NM Prep	
890-2327-21 MSD	PH10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Total/NA	Solid	8015 NM	
890-2327-2	PH01	Total/NA	Solid	8015 NM	
890-2327-3	PH01	Total/NA	Solid	8015 NM	
890-2327-4	PH02	Total/NA	Solid	8015 NM	
890-2327-5	PH02	Total/NA	Solid	8015 NM	
890-2327-6	PH02	Total/NA	Solid	8015 NM	
890-2327-7	PH03	Total/NA	Solid	8015 NM	
890-2327-8	PH03	Total/NA	Solid	8015 NM	
890-2327-9	PH04	Total/NA	Solid	8015 NM	
890-2327-10	PH04	Total/NA	Solid	8015 NM	
890-2327-11	PH05	Total/NA	Solid	8015 NM	
890-2327-12	PH05	Total/NA	Solid	8015 NM	
890-2327-13	PH06	Total/NA	Solid	8015 NM	
890-2327-14	PH06	Total/NA	Solid	8015 NM	
890-2327-15	PH07	Total/NA	Solid	8015 NM	
890-2327-16	PH07	Total/NA	Solid	8015 NM	
890-2327-17	PH08	Total/NA	Solid	8015 NM	
890-2327-18	PH08	Total/NA	Solid	8015 NM	
890-2327-19	PH09	Total/NA	Solid	8015 NM	
890-2327-20	PH09	Total/NA	Solid	8015 NM	
890-2327-21	PH10	Total/NA	Solid	8015 NM	
890-2327-22	PH10	Total/NA	Solid	8015 NM	
890-2327-23	PH11	Total/NA	Solid	8015 NM	
890-2327-24	PH11	Total/NA	Solid	8015 NM	
890-2327-25	PH12	Total/NA	Solid	8015 NM	
890-2327-26	PH12	Total/NA	Solid	8015 NM	
890-2327-27	PH13	Total/NA	Solid	8015 NM	
890-2327-28	PH13	Total/NA	Solid	8015 NM	
890-2327-29	PH14	Total/NA	Solid	8015 NM	
890-2327-30	PH14	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

HPLC/IC

Leach Batch: 26084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Soluble	Solid	DI Leach	
890-2327-2	PH01	Soluble	Solid	DI Leach	
890-2327-3	PH01	Soluble	Solid	DI Leach	
890-2327-4	PH02	Soluble	Solid	DI Leach	
MB 880-26084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2323-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2323-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2326-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2326-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 26085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-5	PH02	Soluble	Solid	DI Leach	
890-2327-6	PH02	Soluble	Solid	DI Leach	
890-2327-7	PH03	Soluble	Solid	DI Leach	
890-2327-8	PH03	Soluble	Solid	DI Leach	
890-2327-9	PH04	Soluble	Solid	DI Leach	
890-2327-10	PH04	Soluble	Solid	DI Leach	
890-2327-11	PH05	Soluble	Solid	DI Leach	
890-2327-12	PH05	Soluble	Solid	DI Leach	
890-2327-13	PH06	Soluble	Solid	DI Leach	
890-2327-14	PH06	Soluble	Solid	DI Leach	
890-2327-15	PH07	Soluble	Solid	DI Leach	
890-2327-16	PH07	Soluble	Solid	DI Leach	
890-2327-17	PH08	Soluble	Solid	DI Leach	
890-2327-18	PH08	Soluble	Solid	DI Leach	
890-2327-19	PH09	Soluble	Solid	DI Leach	
890-2327-20	PH09	Soluble	Solid	DI Leach	
890-2327-21	PH10	Soluble	Solid	DI Leach	
890-2327-22	PH10	Soluble	Solid	DI Leach	
890-2327-23	PH11	Soluble	Solid	DI Leach	
890-2327-24	PH11	Soluble	Solid	DI Leach	
MB 880-26085/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26085/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26085/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2327-5 MS	PH02	Soluble	Solid	DI Leach	
890-2327-5 MSD	PH02	Soluble	Solid	DI Leach	
890-2327-15 MS	PH07	Soluble	Solid	DI Leach	
890-2327-15 MSD	PH07	Soluble	Solid	DI Leach	

Leach Batch: 26091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-25	PH12	Soluble	Solid	DI Leach	
890-2327-26	PH12	Soluble	Solid	DI Leach	
890-2327-27	PH13	Soluble	Solid	DI Leach	
890-2327-28	PH13	Soluble	Solid	DI Leach	
890-2327-29	PH14	Soluble	Solid	DI Leach	
890-2327-30	PH14	Soluble	Solid	DI Leach	
MB 880-26091/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

HPLC/IC (Continued)

Leach Batch: 26091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-26091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2327-25 MS	PH12	Soluble	Solid	DI Leach	
890-2327-25 MSD	PH12	Soluble	Solid	DI Leach	

Analysis Batch: 26199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-1	PH01	Soluble	Solid	300.0	26084
890-2327-2	PH01	Soluble	Solid	300.0	26084
890-2327-3	PH01	Soluble	Solid	300.0	26084
890-2327-4	PH02	Soluble	Solid	300.0	26084
MB 880-26084/1-A	Method Blank	Soluble	Solid	300.0	26084
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	300.0	26084
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26084
890-2323-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	26084
890-2323-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26084
890-2326-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	26084
890-2326-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26084

Analysis Batch: 26234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-5	PH02	Soluble	Solid	300.0	26085
890-2327-6	PH02	Soluble	Solid	300.0	26085
890-2327-7	PH03	Soluble	Solid	300.0	26085
890-2327-8	PH03	Soluble	Solid	300.0	26085
890-2327-9	PH04	Soluble	Solid	300.0	26085
890-2327-10	PH04	Soluble	Solid	300.0	26085
890-2327-11	PH05	Soluble	Solid	300.0	26085
890-2327-12	PH05	Soluble	Solid	300.0	26085
890-2327-13	PH06	Soluble	Solid	300.0	26085
890-2327-14	PH06	Soluble	Solid	300.0	26085
890-2327-15	PH07	Soluble	Solid	300.0	26085
890-2327-16	PH07	Soluble	Solid	300.0	26085
890-2327-17	PH08	Soluble	Solid	300.0	26085
890-2327-18	PH08	Soluble	Solid	300.0	26085
890-2327-19	PH09	Soluble	Solid	300.0	26085
890-2327-20	PH09	Soluble	Solid	300.0	26085
890-2327-21	PH10	Soluble	Solid	300.0	26085
890-2327-22	PH10	Soluble	Solid	300.0	26085
890-2327-23	PH11	Soluble	Solid	300.0	26085
890-2327-24	PH11	Soluble	Solid	300.0	26085
MB 880-26085/1-A	Method Blank	Soluble	Solid	300.0	26085
LCS 880-26085/2-A	Lab Control Sample	Soluble	Solid	300.0	26085
LCSD 880-26085/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26085
890-2327-5 MS	PH02	Soluble	Solid	300.0	26085
890-2327-5 MSD	PH02	Soluble	Solid	300.0	26085
890-2327-15 MS	PH07	Soluble	Solid	300.0	26085
890-2327-15 MSD	PH07	Soluble	Solid	300.0	26085

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

HPLC/IC

Analysis Batch: 26235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2327-25	PH12	Soluble	Solid	300.0	26091
890-2327-26	PH12	Soluble	Solid	300.0	26091
890-2327-27	PH13	Soluble	Solid	300.0	26091
890-2327-28	PH13	Soluble	Solid	300.0	26091
890-2327-29	PH14	Soluble	Solid	300.0	26091
890-2327-30	PH14	Soluble	Solid	300.0	26091
MB 880-26091/1-A	Method Blank	Soluble	Solid	300.0	26091
LCS 880-26091/2-A	Lab Control Sample	Soluble	Solid	300.0	26091
LCSD 880-26091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26091
890-2327-25 MS	PH12	Soluble	Solid	300.0	26091
890-2327-25 MSD	PH12	Soluble	Solid	300.0	26091

Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH01

Lab Sample ID: 890-2327-1

Date Collected: 05/18/22 10:50

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 17:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 11:07	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		1			26199	05/25/22 09:04	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-2327-2

Date Collected: 05/18/22 10:55

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 18:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 12:12	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		5			26199	05/25/22 09:13	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-2327-3

Date Collected: 05/18/22 11:10

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 18:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 12:34	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		5			26199	05/25/22 09:22	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2327-4

Date Collected: 05/18/22 11:15

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 19:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH02

Lab Sample ID: 890-2327-4

Date Collected: 05/18/22 11:15

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 12:56	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		5			26199	05/25/22 09:32	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2327-5

Date Collected: 05/18/22 11:30

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 19:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 13:18	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 17:53	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2327-6

Date Collected: 05/18/22 11:35

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 20:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 13:40	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 18:21	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2327-7

Date Collected: 05/18/22 12:05

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 20:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 14:02	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH03

Lab Sample ID: 890-2327-7

Date Collected: 05/18/22 12:05

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 18:30	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2327-8

Date Collected: 05/18/22 12:15

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 21:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 14:24	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 18:39	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-2327-9

Date Collected: 05/18/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	26082	05/23/22 21:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 14:46	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 18:48	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-2327-10

Date Collected: 05/18/22 13:05

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25990	05/20/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 21:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 15:08	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 19:16	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH05

Lab Sample ID: 890-2327-11

Date Collected: 05/18/22 13:15

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 06:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 16:59	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 19:25	CH	XEN MID

Client Sample ID: PH05

Lab Sample ID: 890-2327-12

Date Collected: 05/18/22 13:20

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 06:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 17:21	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		5			26234	05/26/22 19:34	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-2327-13

Date Collected: 05/18/22 13:25

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 06:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 17:42	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 19:44	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-2327-14

Date Collected: 05/18/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 07:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH06

Lab Sample ID: 890-2327-14

Date Collected: 05/18/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 18:03	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/27/22 10:41	CH	XEN MID

Client Sample ID: PH07

Lab Sample ID: 890-2327-15

Date Collected: 05/18/22 13:45

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 07:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 18:25	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 20:02	CH	XEN MID

Client Sample ID: PH07

Lab Sample ID: 890-2327-16

Date Collected: 05/18/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 08:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 18:47	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 20:30	CH	XEN MID

Client Sample ID: PH08

Lab Sample ID: 890-2327-17

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 08:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 19:09	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH08

Lab Sample ID: 890-2327-17

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 20:39	CH	XEN MID

Client Sample ID: PH08

Lab Sample ID: 890-2327-18

Date Collected: 05/18/22 14:05

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 08:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 19:31	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 21:07	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-2327-19

Date Collected: 05/18/22 14:10

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 09:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 19:52	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 21:16	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-2327-20

Date Collected: 05/18/22 14:15

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 09:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26029	05/23/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26026	05/23/22 20:14	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 21:25	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH10

Lab Sample ID: 890-2327-21

Date Collected: 05/19/22 13:30

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 10:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 11:08	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 21:35	CH	XEN MID

Client Sample ID: PH10

Lab Sample ID: 890-2327-22

Date Collected: 05/19/22 03:35

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 11:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 12:13	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/26/22 21:44	CH	XEN MID

Client Sample ID: PH11

Lab Sample ID: 890-2327-23

Date Collected: 05/19/22 13:45

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 11:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 12:35	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/27/22 07:46	CH	XEN MID

Client Sample ID: PH11

Lab Sample ID: 890-2327-24

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 11:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH11

Lab Sample ID: 890-2327-24

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 12:56	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26085	05/23/22 11:07	SC	XEN MID
Soluble	Analysis	300.0		1			26234	05/27/22 07:55	CH	XEN MID

Client Sample ID: PH12

Lab Sample ID: 890-2327-25

Date Collected: 05/19/22 14:05

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 12:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 13:18	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 09:09	SC	XEN MID

Client Sample ID: PH12

Lab Sample ID: 890-2327-26

Date Collected: 05/19/22 14:10

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 12:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 13:40	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 11:27	SC	XEN MID

Client Sample ID: PH13

Lab Sample ID: 890-2327-27

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 14:02	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Client Sample ID: PH13

Lab Sample ID: 890-2327-27

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 11:36	SC	XEN MID

Client Sample ID: PH13

Lab Sample ID: 890-2327-28

Date Collected: 05/19/22 14:30

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 13:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 14:24	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 11:45	SC	XEN MID

Client Sample ID: PH14

Lab Sample ID: 890-2327-29

Date Collected: 05/19/22 14:25

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 13:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 14:46	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 11:54	SC	XEN MID

Client Sample ID: PH14

Lab Sample ID: 890-2327-30

Date Collected: 05/19/22 14:40

Matrix: Solid

Date Received: 05/20/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26098	05/23/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26081	05/24/22 13:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26129	05/24/22 09:11	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26136	05/24/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 15:07	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 12:46	SC	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
- 3
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- 5
- 6
- 7
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- 10
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- 14

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

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

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

Sample Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-2327-1
SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2327-1	PH01	Solid	05/18/22 10:50	05/20/22 12:36	0.5
890-2327-2	PH01	Solid	05/18/22 10:55	05/20/22 12:36	1
890-2327-3	PH01	Solid	05/18/22 11:10	05/20/22 12:36	4
890-2327-4	PH02	Solid	05/18/22 11:15	05/20/22 12:36	0.5
890-2327-5	PH02	Solid	05/18/22 11:30	05/20/22 12:36	3
890-2327-6	PH02	Solid	05/18/22 11:35	05/20/22 12:36	4
890-2327-7	PH03	Solid	05/18/22 12:05	05/20/22 12:36	0.5
890-2327-8	PH03	Solid	05/18/22 12:15	05/20/22 12:36	1
890-2327-9	PH04	Solid	05/18/22 13:00	05/20/22 12:36	0.5
890-2327-10	PH04	Solid	05/18/22 13:05	05/20/22 12:36	1
890-2327-11	PH05	Solid	05/18/22 13:15	05/20/22 12:36	0.5
890-2327-12	PH05	Solid	05/18/22 13:20	05/20/22 12:36	1
890-2327-13	PH06	Solid	05/18/22 13:25	05/20/22 12:36	0.5
890-2327-14	PH06	Solid	05/18/22 13:30	05/20/22 12:36	1
890-2327-15	PH07	Solid	05/18/22 13:45	05/20/22 12:36	0.5
890-2327-16	PH07	Solid	05/18/22 13:50	05/20/22 12:36	1
890-2327-17	PH08	Solid	05/18/22 14:00	05/20/22 12:36	0.5
890-2327-18	PH08	Solid	05/18/22 14:05	05/20/22 12:36	1
890-2327-19	PH09	Solid	05/18/22 14:10	05/20/22 12:36	0.5
890-2327-20	PH09	Solid	05/18/22 14:15	05/20/22 12:36	1
890-2327-21	PH10	Solid	05/19/22 13:30	05/20/22 12:36	0.5
890-2327-22	PH10	Solid	05/19/22 03:35	05/20/22 12:36	1
890-2327-23	PH11	Solid	05/19/22 13:45	05/20/22 12:36	0.5
890-2327-24	PH11	Solid	05/19/22 13:50	05/20/22 12:36	1
890-2327-25	PH12	Solid	05/19/22 14:05	05/20/22 12:36	0.5
890-2327-26	PH12	Solid	05/19/22 14:10	05/20/22 12:36	1
890-2327-27	PH13	Solid	05/19/22 14:25	05/20/22 12:36	0.5
890-2327-28	PH13	Solid	05/19/22 14:30	05/20/22 12:36	1
890-2327-29	PH14	Solid	05/19/22 14:25	05/20/22 12:36	0.5
890-2327-30	PH14	Solid	05/19/22 14:40	05/20/22 12:36	1



Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager: Anna Byers		Bill to: (if different)	
Company Name: ENSOLVM		Company Name: WEX	
Address: 3122 Nati Parks HWY		Address: 5315 Buena Vista Dr.	
City, State ZIP: Carlsbad NM 88220		City, State ZIP: Carlsbad NM 88220	
Phone: 575-200-6754		Email: abyers@ensolvm.com	

Project Name: ROSS DRAW UNIT #034		Turn Around	
Project Number: 0341987018		Routine ☒ Rush ☐	
Project Location: Eddy County		Due Date:	
Sampler's Name: LIZ CHEN		TAT starts the day received by the lab, if received by 4:30pm	
P.O. #: n/a		Wet Ice: ☒ No ☐	

SAMPLE RECEIPT				Parameters				ANALYSIS REQUEST				Preservative Codes			
Samples Received Intact: ☒ No ☐				Thermometer ID: T-11007				None: NO				DI Water: H ₂ O			
Cooler Custody Seals: Yes ☒ No ☐				Correction Factor: -0.2				Cool: Cool				MeOH: Me			
Sample Custody Seals: Yes ☒ No ☐				Temperature Reading: 1.0				HCL: HC				HNO ₃ : HN			
Total Containers: 1				Corrected Temperature: 1.2				H ₂ SO ₄ : H ₂				NaOH: Na			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
PH01	S	5/19/22	10:50	0.5'	G	1	CC# 1061093901
PH01			10:55	1'	G	1	Incident #'s 10P#
PH01			11:10	4'	G	1	2RP-4529
PH02			11:15	0.5'	G	1	(nAB1730055339)
PH02			11:30	3'	G	1	
PH02			11:35	4'	G	1	
PH03			12:05	0.5'	G	1	nAPP2107-554245
PH03			12:15	1'	G	1	
PH04			13:00	0.5'	G	1	
PH04			13:05	1'	G	1	

Total 2007 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471					

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	5/19/22 12:30			
3 <i>[Signature]</i>					
5 <i>[Signature]</i>					

Revised Date 08/21/2020 Rev. 2002

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No: _____

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Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other: _____

Project Manager:	Anna Byers	Bill to: (if different)	Jim Riley
Company Name:	Ensolium	Company Name:	✓ Devco WPX
Address:	3022 Natl Parks Hwy	Address:	5315 Buena Vista Dr
City, State ZIP:	Corvado NM 87220	City, State ZIP:	Corvado NM 87220
Phone:	575-200-6754	Email:	abyers@ensolium.com

Project Name:		PO Draw Unit #03A		Turn Around		ANALYSIS REQUEST												Preservative Codes			
P Project Number:		03A1987010		☒ Routine ☐ Rush														None: NO DI Water: H ₂ O			
Project Location:		Eddy County		Due Date:														Cool: Cool MeOH: Me			
Sampler's Name:		Liz Chell		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN			
PO #:		n/a																H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT																					
Samples Received Intact:		Yes No		Temp Blank:		Yes No		Wetted:		Yes No								H ₃ PO ₄ : HP			
Cooler Custody Seals:		Yes No N/A		Thermometer ID:				Consistent:										NaHSO ₄ : NABIS			
Sample Custody Seals:		Yes No N/A		Temperature Reading:				Corrected Temperature:										Na ₂ S ₂ O ₃ : NaSO ₃			
Total Containers:																		Zn Acetate+NaOH: Zn			
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont								NaOH+Ascorbic Acid: SAPC	
PH05		S		5/18/22		13:15		0.5'		G		1								CC # 1061093901	
PH05						13:20		1'		G		1									
PH06						13:25		0.5'		G		1								Incident #/PP#:	
PH06						13:30		1'		G		1								2AP-4529	
PH07						13:45		0.5'		G		1								(nAB1736)55339	
PH07						13:50		1'		G		1								d	
PH07						14:00		0.5'		G		1								nAPP2107554265	
PH08						14:05		1'		G		1									
PH09						14:10		0.5'		G		1									
PH09		V				14:15		1'		G		1									

Total	200.7 / 6010	200.8 / 6020:	8RCRA Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂	Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed				TCLP / SPL P6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471	

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5/20/12 12:36			
3						
4						
6						

Revised Date 08/25/2020 Rev 2020.2

Chain of Custody

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

Environment Testing
Xenco



Work Order No: _____

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Work Order Comments

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

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Anna Byers

Company Name: Ensilum

Address: 3122 Natl. Parks Hwy

City, State ZIP: Carlsbad NM 88220

Phone: 575-200-6750

Bill to: (if different) Jim Raker

Company Name: 4-Dragon WPX

Address: 5315 Buena Vista Dr

City, State ZIP: Carlsbad NM 88220

Email: alayer@ensilum.com

Project Name: ROS Draw Unit H034		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Project Number: 03A14701P	Temp Blank: Yes No	Wet Ice: Yes No	Thermometer ID: 2012-01-01	Grab/Comp	Depth	Time Sampled	Date Sampled	Matrix	Sample Identification
Project Location: Eddy County	Yes No	Yes No	Yes No	1	0.5'	1330	5/14/22	S	PH10
Sampler's Name: Liz Chen	Yes No	Yes No	Yes No	1	1'	1335			PH10
PO #: 10	Yes No	Yes No	Yes No	1	0.5'	1345			PH11
	Yes No	Yes No	Yes No	1	1'	1350			PH11
	Yes No	Yes No	Yes No	1	0.5'	1405			PH12
	Yes No	Yes No	Yes No	1	1'	1410			PH12
	Yes No	Yes No	Yes No	1	0.5'	1425			PH13
	Yes No	Yes No	Yes No	1	1'	1430			PH13
	Yes No	Yes No	Yes No	1	0.5'	1435			PH14
	Yes No	Yes No	Yes No	1	1'	1440			PH14

DI Water: H₂O
Cool: Cool
HCL: HC
H₂SO₄: H₂
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments: CC# 1061043901
Incident #3/PP# : 2RP-4529
(NAB1736055335)
d
nAPP21075554265

Total 2007 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	5/14/22 12:37			

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



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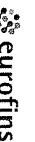
Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:				Phone	Kramer, Jessica		890-764 1									
Shipping/Receiving					E-Mail	State of Origin	Page									
Company					Jessica Kramer@el.eurofinsus.com	New Mexico	Page 1 of 4									
Eurofins Environment Testing South Cent				Accreditations Required (See note):	NELAP - Texas		Job #									
Address				Due Date Requested	Analysis Requested											
1211 W Florida Ave				5/26/2022												
City				TAT Requested (days)												
Midland																
State, Zip																
TX, 79701																
Phone				PO #												
432-704-5440(Tel)				W/O #												
Email																
Project Name				Project #:												
Ross Draw Unit #034				89000084												
Site				SSOW#:												
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=C-comp, G=grab)	Matrix (W=water, S=solid, O=oil, G=gas, L=leachate, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
PH01 (890-2327-1)				5/18/22	10 50	Mountain	Solid		X	X	X	X	X	X	1	
PH01 (890-2327-2)				5/18/22	10 55	Mountain	Solid		X	X	X	X	X	X	1	
PH01 (890-2327-3)				5/18/22	11 10	Mountain	Solid		X	X	X	X	X	X	1	
PH02 (890-2327-4)				5/18/22	11 15	Mountain	Solid		X	X	X	X	X	X	1	
PH02 (890-2327-5)				5/18/22	11 30	Mountain	Solid		X	X	X	X	X	X	1	
PH02 (890-2327-6)				5/18/22	11 35	Mountain	Solid		X	X	X	X	X	X	1	
PH03 (890-2327-7)				5/18/22	12 05	Mountain	Solid		X	X	X	X	X	X	1	
PH03 (890-2327-8)				5/18/22	12 15	Mountain	Solid		X	X	X	X	X	X	1	
PH04 (890-2327-9)				5/18/22	13 00	Mountain	Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank, 2																
Empty Kit Relinquished by																
Relinquished by NOliks 5.20.22																
Relinquished by																
Relinquished by																
Cooler Temperature(s) °C and Other Remarks 2/1/19																
Custody Seals Intact: Custody Seal No																
A Yes A No																

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Camera Tracking (Not)	COC No.
Client Contact:	Phone	Kramer Jessica	State of Origin	890-784 2	Page: 2 of 4
Shipping/Receiving	E-Mail	Jessica.Kramer@eurofins.com	New Mexico	Job #	890-2327-1
Company	Accreditations Required (See note)	NEILAP - Texas			
Address	Due Date Requested:	5/26/2022			
1211 W Florida Ave,	TAT Requested (days)				
City					
Midland					
State Zip:					
TX 79701					
Phone	PO #				
432-704-5440(Te)	W/O #				
Email	Project #	89000084			
Project Name	SSOV#				
Ross Draw Unit #034					
Site					
Sample Identification - Client ID (Lab ID)					
PH04 (890-2327-10)	Sample Date	5/18/22	Sample Time	13 05	Sample Type (C=Comp, G=grab)
					Matrix (W=water, S=solid, O=wastefill, B=trace, AA=)
PH05 (890-2327-11)	5/18/22	13 15	Solid		
PH06 (890-2327-12)	5/18/22	13 20	Solid		
PH07 (890-2327-13)	5/18/22	13 25	Solid		
PH08 (890-2327-14)	5/18/22	13 30	Solid		
PH07 (890-2327-15)	5/18/22	13 45	Solid		
PH07 (890-2327-16)	5/18/22	13 50	Solid		
PH08 (890-2327-17)	5/18/22	14 00	Solid		
PH08 (890-2327-18)	5/18/22	14 05	Solid		
Analysis Requested					
☒ Field Filtered Sample (Yes or No)					
☒ Perform MS/MSD (Yes or No)					
8015MOD_Calc					
8015MOD_NM/8015NM_S_Prep Full TPH					
300_ORGFMM_28D/DI_LEACH Chloride					
8021B/6036FP_Calc BTEX					
Total_BTEX_GCV					
☒ Total Number of containers					
Special Instructions/Note:					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the sample must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements					
Empty Kit Relinquished by					
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
N Divas	5-26-22		J Kramer		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					

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Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

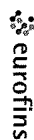


Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact		Phone	Kramer Jessica		890-764 3					
Shipping/Receiving		E-Mail	Jessica.Kramer@eurofins.com	State of Origin	Page 3 of 4					
Company	Eurofins Environment Testing South Center	Accreditations Required (See note)	NE LAP - Texas	Job #	890-2327-1					
Address	1211 W Florida Ave	Due Date Requested	5/26/2022	Preservation Codes						
City	Midland	TAT Requested (days)		A HCL	M Hexane					
State Zip	TX, 79701			B NaOH	N None					
Phone	432-704-5440(Tel)	PO #		C Zn Acetate	O AsNaO2					
Email		WO #		D Nitric Acid	P Na2O4S					
Project Name	Ross Draw Unit #034	Project #	89000084	E NaHSO4	Q Na2SO3					
Site		SSOW#		F - MeOH	R Na2S2O3					
				G - Amchlor	S H2SO4					
				H - Ascorbic Acid	T TSP Dodecaldehyde					
				I Ice	U Acetone					
				J DI Water	V MCAA					
				K EDTA	W pH 4-5					
				L EDTA	Y Trizma					
				Other	Z other (specify)					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=BT/Tris, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
PH09 (890-2327-19)		5/18/22	14 10		Solid	X	X	8016MOD_Calc	X	
PH09 (890-2327-20)		5/18/22	14 15		Solid	X	X	8016MOD_NM/8016NM_S_Prep Full TPH	X	
PH10 (890-2327-21)		5/19/22	13 30		Solid	X	X	300_ORGFEM_28D/DI_LEACH Chloride	X	
PH10 (890-2327-22)		5/19/22	03 35		Solid	X	X	8021B/6036FP_Calc BTEX	X	
PH11 (890-2327-23)		5/19/22	13 45		Solid	X	X	Total_BTEX_GCV	X	
PH11 (890-2327-24)		5/19/22	13 50		Solid	X	X		X	
PH12 (890-2327-25)		5/19/22	14 05		Solid	X	X		X	
PH12 (890-2327-26)		5/19/22	14 10		Solid	X	X		X	
PH13 (890-2327-27)		5/19/22	14 25		Solid	X	X		X	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Center, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing South Center, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Center, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Center, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III IV Other (specify)										
Primary Deliverable Rank 2										
Special Instructions/QC Requirements										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months										
Empty Kit Relinquished by										
Relinquished by <i>N Olivas</i> 5:26:22										
Relinquished by										
Relinquished by										
Custody Seals Intact										
Custody Seal No										
Cooler Temperature(s) °C and Other Remarks.										

1089 N Canal St.
Carlsbad NM 88220

Chain of Custody Record



**Environment Testing
America**

Ver. 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2327-1

SDG Number: 03A1987018

Login Number: 2327

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2327-1

SDG Number: 03A1987018

Login Number: 2327

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 05/23/22 08:18 AM

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	2.1/1.9
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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2328-1

Laboratory Sample Delivery Group: 03A197018

Client Project/Site: ROSS DRAW UNIT #034

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Anna Byers

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/31/2022 8:08:35 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Laboratory Job ID: 890-2328-1
SDG: 03A197018

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Definitions/Glossary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Case Narrative

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Job ID: 890-2328-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2328-1

Receipt

The samples were received on 5/20/2022 12:35 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 1.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26102 and analytical batch 880-26017 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-25990/1-A). 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: (890-2327-A-1-H). 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: BH02 (890-2328-3). 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: BH03 (890-2328-5). 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: (890-2327-A-21-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26030 and analytical batch 880-26020 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. The MS/MSD RPD passes therefore shows recovery for the batch.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-26031/2-A), (LCSD 880-26031/3-A) and (MB 880-26031/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH01 (890-2328-1). 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: BH02 (890-2328-3) and BH02 (890-2328-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH05 (890-2328-9). 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: BH06 (890-2328-11), BH06 (890-2328-12), BH07 (890-2328-13) and BH07 (890-2328-14). 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: BH09 (890-2328-18) and BH09 (890-2328-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Job ID: 890-2328-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The laboratory control sample (LCS) associated with preparation batch 880-26108 and analytical batch 880-26223 was outside acceptance criteria. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-26091 and analytical batch 880-26235 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: BH01 (890-2328-1), BH01 (890-2328-2), BH02 (890-2328-3) and BH02 (890-2328-4).

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

Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH01

Lab Sample ID: 890-2328-1

Date Collected: 05/19/22 09:05

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:46	05/24/22 01:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:46	05/24/22 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:46	05/24/22 01:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 15:46	05/24/22 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:46	05/24/22 01:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 15:46	05/24/22 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	05/23/22 15:46	05/24/22 01:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/23/22 15:46	05/24/22 01:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	05/23/22 08:26	05/23/22 11:08	1
o-Terphenyl	136	S1+	70 - 130	05/23/22 08:26	05/23/22 11:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3810		25.0		mg/Kg			05/27/22 12:55	5

Client Sample ID: BH01

Lab Sample ID: 890-2328-2

Date Collected: 05/19/22 09:30

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 13:00	05/24/22 02:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 13:00	05/24/22 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	05/23/22 13:00	05/24/22 02:12	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH01

Lab Sample ID: 890-2328-2

Date Collected: 05/19/22 09:30

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 13:00	05/24/22 02:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/23/22 08:26	05/23/22 12:13	1
o-Terphenyl	130		70 - 130				05/23/22 08:26	05/23/22 12:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2430		25.2		mg/Kg			05/27/22 13:04	5

Client Sample ID: BH02

Lab Sample ID: 890-2328-3

Date Collected: 05/19/22 09:35

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 13:00	05/24/22 02:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 13:00	05/24/22 02:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 13:00	05/24/22 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/23/22 13:00	05/24/22 02:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/23/22 13:00	05/24/22 02:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH02

Lab Sample ID: 890-2328-3

Date Collected: 05/19/22 09:35

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/23/22 08:26	05/23/22 12:35	1
o-Terphenyl	138	S1+	70 - 130				05/23/22 08:26	05/23/22 12:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.2		5.00		mg/Kg			05/27/22 13:13	1

Client Sample ID: BH02

Lab Sample ID: 890-2328-4

Date Collected: 05/19/22 10:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 13:00	05/24/22 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				05/23/22 13:00	05/24/22 03:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/23/22 13:00	05/24/22 03:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/23/22 08:26	05/23/22 12:56	1
o-Terphenyl	135	S1+	70 - 130				05/23/22 08:26	05/23/22 12:56	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH02

Lab Sample ID: 890-2328-4

Date Collected: 05/19/22 10:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.96		mg/Kg			05/27/22 13:23	1

Client Sample ID: BH03

Lab Sample ID: 890-2328-5

Date Collected: 05/19/22 10:05

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/23/22 13:00	05/24/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				05/23/22 13:00	05/24/22 03:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/23/22 13:00	05/24/22 03:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				05/23/22 08:26	05/23/22 13:18	1
o-Terphenyl	97		70 - 130				05/23/22 08:26	05/23/22 13:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.95		mg/Kg			05/27/22 13:32	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH03

Lab Sample ID: 890-2328-6

Date Collected: 05/19/22 10:20

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 00:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 00:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 00:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/23/22 15:02	05/24/22 00:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 00:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/23/22 15:02	05/24/22 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/23/22 15:02	05/24/22 00:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/23/22 15:02	05/24/22 00:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/23/22 08:26	05/23/22 13:40	1
o-Terphenyl	118		70 - 130	05/23/22 08:26	05/23/22 13:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		5.04		mg/Kg			05/27/22 13:59	1

Client Sample ID: BH04

Lab Sample ID: 890-2328-7

Date Collected: 05/19/22 10:25

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 01:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 01:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 01:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 15:02	05/24/22 01:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 01:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 15:02	05/24/22 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/23/22 15:02	05/24/22 01:00	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH04

Lab Sample ID: 890-2328-7

Date Collected: 05/19/22 10:25

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	05/23/22 15:02	05/24/22 01:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/23/22 08:26	05/23/22 14:02	1
o-Terphenyl	118		70 - 130				05/23/22 08:26	05/23/22 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		4.99		mg/Kg			05/27/22 14:09	1

Client Sample ID: BH04

Lab Sample ID: 890-2328-8

Date Collected: 05/19/22 10:40

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 01:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 01:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 01:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 01:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 01:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/23/22 15:02	05/24/22 01:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/23/22 15:02	05/24/22 01:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH04

Lab Sample ID: 890-2328-8

Date Collected: 05/19/22 10:40

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:26	05/23/22 14:24	1
o-Terphenyl	119		70 - 130				05/23/22 08:26	05/23/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	416		4.98		mg/Kg			05/27/22 14:36	1

Client Sample ID: BH05

Lab Sample ID: 890-2328-9

Date Collected: 05/19/22 10:45

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 01:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				05/23/22 15:02	05/24/22 01:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/23/22 15:02	05/24/22 01:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/23/22 08:26	05/23/22 14:46	1
o-Terphenyl	133	S1+	70 - 130				05/23/22 08:26	05/23/22 14:46	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH05

Lab Sample ID: 890-2328-9

Date Collected: 05/19/22 10:45

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		4.96		mg/Kg			05/27/22 14:46	1

Client Sample ID: BH05

Lab Sample ID: 890-2328-10

Date Collected: 05/19/22 11:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				05/23/22 15:02	05/24/22 02:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/23/22 15:02	05/24/22 02:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/23/22 08:26	05/23/22 15:07	1
o-Terphenyl	126		70 - 130				05/23/22 08:26	05/23/22 15:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		5.00		mg/Kg			05/27/22 14:55	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH06

Lab Sample ID: 890-2328-11

Date Collected: 05/19/22 11:05

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 02:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 02:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 02:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 02:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 02:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	05/23/22 15:02	05/24/22 02:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/23/22 15:02	05/24/22 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	05/23/22 08:26	05/23/22 16:13	1
o-Terphenyl	142	S1+	70 - 130	05/23/22 08:26	05/23/22 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.99		mg/Kg			05/27/22 15:04	1

Client Sample ID: BH06

Lab Sample ID: 890-2328-12

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 02:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 02:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	05/23/22 15:02	05/24/22 02:42	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH06

Lab Sample ID: 890-2328-12

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	05/23/22 15:02	05/24/22 02:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				05/23/22 08:26	05/23/22 16:34	1
o-Terphenyl	155	S1+	70 - 130				05/23/22 08:26	05/23/22 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		5.03		mg/Kg			05/27/22 15:13	1

Client Sample ID: BH07

Lab Sample ID: 890-2328-13

Date Collected: 05/19/22 11:25

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 04:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 04:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 04:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 04:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 04:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/23/22 15:02	05/24/22 04:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/23/22 15:02	05/24/22 04:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH07

Lab Sample ID: 890-2328-13

Date Collected: 05/19/22 11:25

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				05/23/22 08:26	05/23/22 16:56	1
o-Terphenyl	138	S1+	70 - 130				05/23/22 08:26	05/23/22 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		5.00		mg/Kg			05/27/22 15:22	1

Client Sample ID: BH07

Lab Sample ID: 890-2328-14

Date Collected: 05/19/22 11:40

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				05/23/22 15:02	05/24/22 04:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/23/22 15:02	05/24/22 04:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 17:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				05/23/22 08:26	05/23/22 17:17	1
o-Terphenyl	131	S1+	70 - 130				05/23/22 08:26	05/23/22 17:17	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH07

Lab Sample ID: 890-2328-14

Date Collected: 05/19/22 11:40

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		4.98		mg/Kg			05/27/22 15:32	1

Client Sample ID: BH08

Lab Sample ID: 890-2328-15

Date Collected: 05/19/22 11:45

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				05/23/22 15:02	05/24/22 04:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 15:02	05/24/22 04:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:26	05/23/22 17:39	1
o-Terphenyl	124		70 - 130				05/23/22 08:26	05/23/22 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5	*- *1	4.98		mg/Kg			05/25/22 17:45	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH08

Lab Sample ID: 890-2328-16

Date Collected: 05/19/22 12:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 05:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 05:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 05:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 05:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 05:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/23/22 15:02	05/24/22 05:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/23/22 15:02	05/24/22 05:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/23/22 08:26	05/23/22 18:01	1
o-Terphenyl	127		70 - 130	05/23/22 08:26	05/23/22 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	488	*- *1	4.95		mg/Kg			05/25/22 18:07	1

Client Sample ID: BH09

Lab Sample ID: 890-2328-17

Date Collected: 05/19/22 12:45

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 05:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/23/22 15:02	05/24/22 05:25	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH09

Lab Sample ID: 890-2328-17

Date Collected: 05/19/22 12:45

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	05/23/22 15:02	05/24/22 05:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/23/22 08:26	05/23/22 18:23	1
o-Terphenyl	119		70 - 130				05/23/22 08:26	05/23/22 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1	*- *1	5.00		mg/Kg			05/25/22 18:14	1

Client Sample ID: BH09

Lab Sample ID: 890-2328-18

Date Collected: 05/19/22 12:55

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 05:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/22 15:02	05/24/22 05:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 15:02	05/24/22 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/23/22 15:02	05/24/22 05:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/23/22 15:02	05/24/22 05:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH09

Lab Sample ID: 890-2328-18

Date Collected: 05/19/22 12:55

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				05/23/22 08:26	05/23/22 18:44	1
o-Terphenyl	135	S1+	70 - 130				05/23/22 08:26	05/23/22 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654	*- *1	25.0		mg/Kg			05/25/22 18:22	5

Client Sample ID: BH09

Lab Sample ID: 890-2328-19

Date Collected: 05/19/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/23/22 15:02	05/24/22 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				05/23/22 15:02	05/24/22 06:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/23/22 15:02	05/24/22 06:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 19:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/22 08:26	05/23/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				05/23/22 08:26	05/23/22 19:06	1
o-Terphenyl	143	S1+	70 - 130				05/23/22 08:26	05/23/22 19:06	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH09

Lab Sample ID: 890-2328-19

Date Collected: 05/19/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750	*- *1	50.4		mg/Kg			05/25/22 18:29	10

Client Sample ID: BH10

Lab Sample ID: 890-2328-20

Date Collected: 05/19/22 14:55

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 06:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				05/23/22 15:02	05/24/22 06:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/23/22 15:02	05/24/22 06:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/23/22 08:26	05/23/22 19:28	1
o-Terphenyl	122		70 - 130				05/23/22 08:26	05/23/22 19:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2	*- *1	4.98		mg/Kg			05/25/22 18:52	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH10

Lab Sample ID: 890-2328-21

Date Collected: 05/19/22 15:05

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 06:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 15:02	05/24/22 06:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 15:02	05/24/22 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	05/23/22 15:02	05/24/22 06:47	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 15:02	05/24/22 06:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	05/23/22 08:26	05/23/22 16:34	1
o-Terphenyl	123		70 - 130	05/23/22 08:26	05/23/22 16:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470	*- *1	4.96		mg/Kg			05/25/22 18:59	1

Client Sample ID: BH10

Lab Sample ID: 890-2328-22

Date Collected: 05/19/22 15:10

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 07:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 07:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 07:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 07:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/24/22 07:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 15:02	05/24/22 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	05/23/22 15:02	05/24/22 07:07	1

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Client Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH10

Lab Sample ID: 890-2328-22

Date Collected: 05/19/22 15:10

Matrix: Solid

Date Received: 05/20/22 12:35

Sample Depth: 4.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/23/22 15:02	05/24/22 07:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				05/23/22 08:26	05/23/22 16:56	1
o-Terphenyl	118		70 - 130				05/23/22 08:26	05/23/22 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	559	*- *1	50.1		mg/Kg			05/25/22 19:06	10

Surrogate Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-15058-A-2-A MS	Matrix Spike	106	94
880-15058-A-2-B MSD	Matrix Spike Duplicate	108	95
890-2327-A-1-I MS	Matrix Spike	125	88
890-2327-A-1-J MSD	Matrix Spike Duplicate	120	92
890-2328-1	BH01	128	96
890-2328-2	BH01	129	89
890-2328-3	BH02	133 S1+	90
890-2328-4	BH02	126	95
890-2328-5	BH03	136 S1+	95
890-2328-6	BH03	113	94
890-2328-7	BH04	117	96
890-2328-8	BH04	120	97
890-2328-9	BH05	119	93
890-2328-10	BH05	117	94
890-2328-11	BH06	123	92
890-2328-12	BH06	119	96
890-2328-13	BH07	120	93
890-2328-14	BH07	113	97
890-2328-15	BH08	114	96
890-2328-16	BH08	112	96
890-2328-17	BH09	116	90
890-2328-18	BH09	104	88
890-2328-19	BH09	116	97
890-2328-20	BH10	121	95
890-2328-21	BH10	115	89
890-2328-22	BH10	121	92
LCS 880-25990/1-A	Lab Control Sample	133 S1+	98
LCS 880-26102/1-A	Lab Control Sample	108	95
LCSD 880-25990/2-A	Lab Control Sample Dup	123	89
LCSD 880-26102/2-A	Lab Control Sample Dup	105	95
MB 880-25990/5-A	Method Blank	91	89
MB 880-26086/5-A	Method Blank	107	89
MB 880-26102/5-A	Method Blank	113	97

Surrogate Legend

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2327-A-21-B MS	Matrix Spike	115	114
890-2327-A-21-C MSD	Matrix Spike Duplicate	103	101
890-2328-1	BH01	115	136 S1+
890-2328-1 MS	BH01	104	107
890-2328-1 MSD	BH01	108	109
890-2328-2	BH01	112	130

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Surrogate Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2328-3	BH02	121	138 S1+
890-2328-4	BH02	124	135 S1+
890-2328-5	BH03	90	97
890-2328-6	BH03	106	118
890-2328-7	BH04	108	118
890-2328-8	BH04	106	119
890-2328-9	BH05	123	133 S1+
890-2328-10	BH05	112	126
890-2328-11	BH06	119	142 S1+
890-2328-12	BH06	136 S1+	155 S1+
890-2328-13	BH07	118	138 S1+
890-2328-14	BH07	115	131 S1+
890-2328-15	BH08	110	124
890-2328-16	BH08	112	127
890-2328-17	BH09	109	119
890-2328-18	BH09	115	135 S1+
890-2328-19	BH09	131 S1+	143 S1+
890-2328-20	BH10	110	122
890-2328-21	BH10	118	123
890-2328-22	BH10	114	118
LCS 880-26030/2-A	Lab Control Sample	130	130
LCS 880-26031/2-A	Lab Control Sample	123	133 S1+
LCSD 880-26030/3-A	Lab Control Sample Dup	110	110
LCSD 880-26031/3-A	Lab Control Sample Dup	136 S1+	140 S1+
MB 880-26030/1-A	Method Blank	107	114
MB 880-26031/1-A	Method Blank	120	147 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25990/5-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/20/22 15:46	05/23/22 17:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/20/22 15:46	05/23/22 17:31	1

Lab Sample ID: LCS 880-25990/1-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1157		mg/Kg		116	70 - 130
Toluene	0.100	0.1180		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2405		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-25990/2-A

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	8	35
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	9	35
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2327-A-1-I MS

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09613		mg/Kg		96	70 - 130
Toluene	<0.00201	U	0.100	0.09530		mg/Kg		95	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: 890-2327-A-1-I MS

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08810		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1722		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U	0.100	0.08471		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-2327-A-1-J MSD

Matrix: Solid

Analysis Batch: 26082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09841		mg/Kg		99	70 - 130	2	35
Toluene	<0.00201	U	0.0998	0.09590		mg/Kg		96	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.09046		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1805		mg/Kg		90	70 - 130	5	35
o-Xylene	<0.00201	U	0.0998	0.08776		mg/Kg		88	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-26086/5-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/22 11:13	05/23/22 12:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 11:13	05/23/22 12:40	1

Lab Sample ID: MB 880-26102/5-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/23/22 23:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/23/22 23:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/23/22 23:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 15:02	05/23/22 23:16	1

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: MB 880-26102/5-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 15:02	05/23/22 23:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 15:02	05/23/22 23:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/23/22 15:02	05/23/22 23:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/23/22 15:02	05/23/22 23:16	1

Lab Sample ID: LCS 880-26102/1-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09146		mg/Kg		91	70 - 130
Toluene	0.100	0.1010		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-26102/2-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07726		mg/Kg		77	70 - 130	17	35
Toluene	0.100	0.08319		mg/Kg		83	70 - 130	19	35
Ethylbenzene	0.100	0.08612		mg/Kg		86	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1736		mg/Kg		87	70 - 130	19	35
o-Xylene	0.100	0.08878		mg/Kg		89	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-15058-A-2-A MS

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.07431		mg/Kg		74	70 - 130
Toluene	<0.00199	U F1	0.101	0.08116		mg/Kg		81	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08279		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1676		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.101	0.08543		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: 880-15058-A-2-A MS

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26102

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

Lab Sample ID: 880-15058-A-2-B MSD

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06158	F1	mg/Kg		61	70 - 130	19	35
Toluene	<0.00199	U F1	0.100	0.06799	F1	mg/Kg		68	70 - 130	18	35
Ethylbenzene	<0.00199	U	0.100	0.07009		mg/Kg		70	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1437		mg/Kg		72	70 - 130	15	35
o-Xylene	<0.00199	U	0.100	0.07514		mg/Kg		75	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-26030/1-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	107		70 - 130	05/23/22 08:26	05/23/22 10:03	1			
o-Terphenyl	114		70 - 130	05/23/22 08:26	05/23/22 10:03	1			

Lab Sample ID: LCS 880-26030/2-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130		

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

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: LCSD 880-26030/3-A

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26030

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	844.8	*1	mg/Kg		84	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	877.5		mg/Kg		88	70 - 130	19	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	110		70 - 130						

Lab Sample ID: 890-2327-A-21-B MS

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	1181		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1228		mg/Kg		123	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	114		70 - 130								

Lab Sample ID: 890-2327-A-21-C MSD

Matrix: Solid

Analysis Batch: 26020

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	999	1023		mg/Kg		100	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1081		mg/Kg		108	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-26031/1-A

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: MB 880-26031/1-A

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26031

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	05/23/22 08:26	05/23/22 10:03	1
o-Terphenyl	147	S1+	70 - 130	05/23/22 08:26	05/23/22 10:03	1

Lab Sample ID: LCS 880-26031/2-A

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26031

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	879.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	968.6		mg/Kg		97	70 - 130		

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	123		70 - 130			
o-Terphenyl	133	S1+	70 - 130			

Lab Sample ID: LCSD 880-26031/3-A

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26031

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	967.9		mg/Kg		97	70 - 130	10	20	
Diesel Range Organics (Over C10-C28)			1000	1049		mg/Kg		105	70 - 130	8	20	

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	136	S1+	70 - 130			
o-Terphenyl	140	S1+	70 - 130			

Lab Sample ID: 890-2328-1 MS

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 26031

	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	1000	1288		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1099		mg/Kg		110	70 - 130		

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	104		70 - 130			
o-Terphenyl	107		70 - 130			

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

Lab Sample ID: 890-2328-1 MSD

Matrix: Solid

Analysis Batch: 26022

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 26031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1287		mg/Kg		126	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1139		mg/Kg		114	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	109		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26108/1-A

Matrix: Solid

Analysis Batch: 26223

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/25/22 17:22	1

Lab Sample ID: LCS 880-26108/2-A

Matrix: Solid

Analysis Batch: 26223

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-26108/3-A

Matrix: Solid

Analysis Batch: 26223

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	169.4	*- *1	mg/Kg		68	90 - 110	38	20

Lab Sample ID: 890-2328-15 MS

Matrix: Solid

Analysis Batch: 26223

Client Sample ID: BH08

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22.5	*- *1	249	271.6		mg/Kg		100	90 - 110

Lab Sample ID: 890-2328-15 MSD

Matrix: Solid

Analysis Batch: 26223

Client Sample ID: BH08

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.5	*- *1	249	271.5		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-26091/1-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/27/22 08:41	1

Lab Sample ID: LCS 880-26091/2-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-26091/3-A

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-2328-5 MS

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: BH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	201		248	444.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-2328-5 MSD

Matrix: Solid

Analysis Batch: 26235

Client Sample ID: BH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	201		248	445.3		mg/Kg		99	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

GC VOA

Prep Batch: 25990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	5035	
890-2328-2	BH01	Total/NA	Solid	5035	
890-2328-3	BH02	Total/NA	Solid	5035	
890-2328-4	BH02	Total/NA	Solid	5035	
890-2328-5	BH03	Total/NA	Solid	5035	
MB 880-25990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2327-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-2327-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-6	BH03	Total/NA	Solid	8021B	26102
890-2328-7	BH04	Total/NA	Solid	8021B	26102
890-2328-8	BH04	Total/NA	Solid	8021B	26102
890-2328-9	BH05	Total/NA	Solid	8021B	26102
890-2328-10	BH05	Total/NA	Solid	8021B	26102
890-2328-11	BH06	Total/NA	Solid	8021B	26102
890-2328-12	BH06	Total/NA	Solid	8021B	26102
890-2328-13	BH07	Total/NA	Solid	8021B	26102
890-2328-14	BH07	Total/NA	Solid	8021B	26102
890-2328-15	BH08	Total/NA	Solid	8021B	26102
890-2328-16	BH08	Total/NA	Solid	8021B	26102
890-2328-17	BH09	Total/NA	Solid	8021B	26102
890-2328-18	BH09	Total/NA	Solid	8021B	26102
890-2328-19	BH09	Total/NA	Solid	8021B	26102
890-2328-20	BH10	Total/NA	Solid	8021B	26102
890-2328-21	BH10	Total/NA	Solid	8021B	26102
890-2328-22	BH10	Total/NA	Solid	8021B	26102
MB 880-26086/5-A	Method Blank	Total/NA	Solid	8021B	26086
MB 880-26102/5-A	Method Blank	Total/NA	Solid	8021B	26102
LCS 880-26102/1-A	Lab Control Sample	Total/NA	Solid	8021B	26102
LCSD 880-26102/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26102
880-15058-A-2-A MS	Matrix Spike	Total/NA	Solid	8021B	26102
880-15058-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26102

Analysis Batch: 26082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	8021B	25990
890-2328-2	BH01	Total/NA	Solid	8021B	25990
890-2328-3	BH02	Total/NA	Solid	8021B	25990
890-2328-4	BH02	Total/NA	Solid	8021B	25990
890-2328-5	BH03	Total/NA	Solid	8021B	25990
MB 880-25990/5-A	Method Blank	Total/NA	Solid	8021B	25990
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	8021B	25990
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25990
890-2327-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	25990
890-2327-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25990

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

GC VOA

Prep Batch: 26086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26086/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 26102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-6	BH03	Total/NA	Solid	5035	
890-2328-7	BH04	Total/NA	Solid	5035	
890-2328-8	BH04	Total/NA	Solid	5035	
890-2328-9	BH05	Total/NA	Solid	5035	
890-2328-10	BH05	Total/NA	Solid	5035	
890-2328-11	BH06	Total/NA	Solid	5035	
890-2328-12	BH06	Total/NA	Solid	5035	
890-2328-13	BH07	Total/NA	Solid	5035	
890-2328-14	BH07	Total/NA	Solid	5035	
890-2328-15	BH08	Total/NA	Solid	5035	
890-2328-16	BH08	Total/NA	Solid	5035	
890-2328-17	BH09	Total/NA	Solid	5035	
890-2328-18	BH09	Total/NA	Solid	5035	
890-2328-19	BH09	Total/NA	Solid	5035	
890-2328-20	BH10	Total/NA	Solid	5035	
890-2328-21	BH10	Total/NA	Solid	5035	
890-2328-22	BH10	Total/NA	Solid	5035	
MB 880-26102/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26102/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26102/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15058-A-2-A MS	Matrix Spike	Total/NA	Solid	5035	
880-15058-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	Total BTEX	
890-2328-2	BH01	Total/NA	Solid	Total BTEX	
890-2328-3	BH02	Total/NA	Solid	Total BTEX	
890-2328-4	BH02	Total/NA	Solid	Total BTEX	
890-2328-5	BH03	Total/NA	Solid	Total BTEX	
890-2328-6	BH03	Total/NA	Solid	Total BTEX	
890-2328-7	BH04	Total/NA	Solid	Total BTEX	
890-2328-8	BH04	Total/NA	Solid	Total BTEX	
890-2328-9	BH05	Total/NA	Solid	Total BTEX	
890-2328-10	BH05	Total/NA	Solid	Total BTEX	
890-2328-11	BH06	Total/NA	Solid	Total BTEX	
890-2328-12	BH06	Total/NA	Solid	Total BTEX	
890-2328-13	BH07	Total/NA	Solid	Total BTEX	
890-2328-14	BH07	Total/NA	Solid	Total BTEX	
890-2328-15	BH08	Total/NA	Solid	Total BTEX	
890-2328-16	BH08	Total/NA	Solid	Total BTEX	
890-2328-17	BH09	Total/NA	Solid	Total BTEX	
890-2328-18	BH09	Total/NA	Solid	Total BTEX	
890-2328-19	BH09	Total/NA	Solid	Total BTEX	
890-2328-20	BH10	Total/NA	Solid	Total BTEX	
890-2328-21	BH10	Total/NA	Solid	Total BTEX	
890-2328-22	BH10	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

GC Semi VOA

Analysis Batch: 26020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-21	BH10	Total/NA	Solid	8015B NM	26030
890-2328-22	BH10	Total/NA	Solid	8015B NM	26030
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015B NM	26030
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26030
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26030
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26030
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26030

Analysis Batch: 26022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	8015B NM	26031
890-2328-2	BH01	Total/NA	Solid	8015B NM	26031
890-2328-3	BH02	Total/NA	Solid	8015B NM	26031
890-2328-4	BH02	Total/NA	Solid	8015B NM	26031
890-2328-5	BH03	Total/NA	Solid	8015B NM	26031
890-2328-6	BH03	Total/NA	Solid	8015B NM	26031
890-2328-7	BH04	Total/NA	Solid	8015B NM	26031
890-2328-8	BH04	Total/NA	Solid	8015B NM	26031
890-2328-9	BH05	Total/NA	Solid	8015B NM	26031
890-2328-10	BH05	Total/NA	Solid	8015B NM	26031
890-2328-11	BH06	Total/NA	Solid	8015B NM	26031
890-2328-12	BH06	Total/NA	Solid	8015B NM	26031
890-2328-13	BH07	Total/NA	Solid	8015B NM	26031
890-2328-14	BH07	Total/NA	Solid	8015B NM	26031
890-2328-15	BH08	Total/NA	Solid	8015B NM	26031
890-2328-16	BH08	Total/NA	Solid	8015B NM	26031
890-2328-17	BH09	Total/NA	Solid	8015B NM	26031
890-2328-18	BH09	Total/NA	Solid	8015B NM	26031
890-2328-19	BH09	Total/NA	Solid	8015B NM	26031
890-2328-20	BH10	Total/NA	Solid	8015B NM	26031
MB 880-26031/1-A	Method Blank	Total/NA	Solid	8015B NM	26031
LCS 880-26031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26031
LCSD 880-26031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26031
890-2328-1 MS	BH01	Total/NA	Solid	8015B NM	26031
890-2328-1 MSD	BH01	Total/NA	Solid	8015B NM	26031

Prep Batch: 26030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-21	BH10	Total/NA	Solid	8015NM Prep	
890-2328-22	BH10	Total/NA	Solid	8015NM Prep	
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 26031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	8015NM Prep	
890-2328-2	BH01	Total/NA	Solid	8015NM Prep	
890-2328-3	BH02	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

GC Semi VOA (Continued)

Prep Batch: 26031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-4	BH02	Total/NA	Solid	8015NM Prep	
890-2328-5	BH03	Total/NA	Solid	8015NM Prep	
890-2328-6	BH03	Total/NA	Solid	8015NM Prep	
890-2328-7	BH04	Total/NA	Solid	8015NM Prep	
890-2328-8	BH04	Total/NA	Solid	8015NM Prep	
890-2328-9	BH05	Total/NA	Solid	8015NM Prep	
890-2328-10	BH05	Total/NA	Solid	8015NM Prep	
890-2328-11	BH06	Total/NA	Solid	8015NM Prep	
890-2328-12	BH06	Total/NA	Solid	8015NM Prep	
890-2328-13	BH07	Total/NA	Solid	8015NM Prep	
890-2328-14	BH07	Total/NA	Solid	8015NM Prep	
890-2328-15	BH08	Total/NA	Solid	8015NM Prep	
890-2328-16	BH08	Total/NA	Solid	8015NM Prep	
890-2328-17	BH09	Total/NA	Solid	8015NM Prep	
890-2328-18	BH09	Total/NA	Solid	8015NM Prep	
890-2328-19	BH09	Total/NA	Solid	8015NM Prep	
890-2328-20	BH10	Total/NA	Solid	8015NM Prep	
MB 880-26031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2328-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2328-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Total/NA	Solid	8015 NM	
890-2328-2	BH01	Total/NA	Solid	8015 NM	
890-2328-3	BH02	Total/NA	Solid	8015 NM	
890-2328-4	BH02	Total/NA	Solid	8015 NM	
890-2328-5	BH03	Total/NA	Solid	8015 NM	
890-2328-6	BH03	Total/NA	Solid	8015 NM	
890-2328-7	BH04	Total/NA	Solid	8015 NM	
890-2328-8	BH04	Total/NA	Solid	8015 NM	
890-2328-9	BH05	Total/NA	Solid	8015 NM	
890-2328-10	BH05	Total/NA	Solid	8015 NM	
890-2328-11	BH06	Total/NA	Solid	8015 NM	
890-2328-12	BH06	Total/NA	Solid	8015 NM	
890-2328-13	BH07	Total/NA	Solid	8015 NM	
890-2328-14	BH07	Total/NA	Solid	8015 NM	
890-2328-15	BH08	Total/NA	Solid	8015 NM	
890-2328-16	BH08	Total/NA	Solid	8015 NM	
890-2328-17	BH09	Total/NA	Solid	8015 NM	
890-2328-18	BH09	Total/NA	Solid	8015 NM	
890-2328-19	BH09	Total/NA	Solid	8015 NM	
890-2328-20	BH10	Total/NA	Solid	8015 NM	
890-2328-21	BH10	Total/NA	Solid	8015 NM	
890-2328-22	BH10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

HPLC/IC

Leach Batch: 26091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Soluble	Solid	DI Leach	
890-2328-2	BH01	Soluble	Solid	DI Leach	
890-2328-3	BH02	Soluble	Solid	DI Leach	
890-2328-4	BH02	Soluble	Solid	DI Leach	
890-2328-5	BH03	Soluble	Solid	DI Leach	
890-2328-6	BH03	Soluble	Solid	DI Leach	
890-2328-7	BH04	Soluble	Solid	DI Leach	
890-2328-8	BH04	Soluble	Solid	DI Leach	
890-2328-9	BH05	Soluble	Solid	DI Leach	
890-2328-10	BH05	Soluble	Solid	DI Leach	
890-2328-11	BH06	Soluble	Solid	DI Leach	
890-2328-12	BH06	Soluble	Solid	DI Leach	
890-2328-13	BH07	Soluble	Solid	DI Leach	
890-2328-14	BH07	Soluble	Solid	DI Leach	
MB 880-26091/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2328-5 MS	BH03	Soluble	Solid	DI Leach	
890-2328-5 MSD	BH03	Soluble	Solid	DI Leach	

Leach Batch: 26108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-15	BH08	Soluble	Solid	DI Leach	
890-2328-16	BH08	Soluble	Solid	DI Leach	
890-2328-17	BH09	Soluble	Solid	DI Leach	
890-2328-18	BH09	Soluble	Solid	DI Leach	
890-2328-19	BH09	Soluble	Solid	DI Leach	
890-2328-20	BH10	Soluble	Solid	DI Leach	
890-2328-21	BH10	Soluble	Solid	DI Leach	
890-2328-22	BH10	Soluble	Solid	DI Leach	
MB 880-26108/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26108/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26108/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2328-15 MS	BH08	Soluble	Solid	DI Leach	
890-2328-15 MSD	BH08	Soluble	Solid	DI Leach	

Analysis Batch: 26223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-15	BH08	Soluble	Solid	300.0	26108
890-2328-16	BH08	Soluble	Solid	300.0	26108
890-2328-17	BH09	Soluble	Solid	300.0	26108
890-2328-18	BH09	Soluble	Solid	300.0	26108
890-2328-19	BH09	Soluble	Solid	300.0	26108
890-2328-20	BH10	Soluble	Solid	300.0	26108
890-2328-21	BH10	Soluble	Solid	300.0	26108
890-2328-22	BH10	Soluble	Solid	300.0	26108
MB 880-26108/1-A	Method Blank	Soluble	Solid	300.0	26108
LCS 880-26108/2-A	Lab Control Sample	Soluble	Solid	300.0	26108
LCSD 880-26108/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26108
890-2328-15 MS	BH08	Soluble	Solid	300.0	26108
890-2328-15 MSD	BH08	Soluble	Solid	300.0	26108

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QC Association Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

HPLC/IC

Analysis Batch: 26235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2328-1	BH01	Soluble	Solid	300.0	26091
890-2328-2	BH01	Soluble	Solid	300.0	26091
890-2328-3	BH02	Soluble	Solid	300.0	26091
890-2328-4	BH02	Soluble	Solid	300.0	26091
890-2328-5	BH03	Soluble	Solid	300.0	26091
890-2328-6	BH03	Soluble	Solid	300.0	26091
890-2328-7	BH04	Soluble	Solid	300.0	26091
890-2328-8	BH04	Soluble	Solid	300.0	26091
890-2328-9	BH05	Soluble	Solid	300.0	26091
890-2328-10	BH05	Soluble	Solid	300.0	26091
890-2328-11	BH06	Soluble	Solid	300.0	26091
890-2328-12	BH06	Soluble	Solid	300.0	26091
890-2328-13	BH07	Soluble	Solid	300.0	26091
890-2328-14	BH07	Soluble	Solid	300.0	26091
MB 880-26091/1-A	Method Blank	Soluble	Solid	300.0	26091
LCS 880-26091/2-A	Lab Control Sample	Soluble	Solid	300.0	26091
LCSD 880-26091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26091
890-2328-5 MS	BH03	Soluble	Solid	300.0	26091
890-2328-5 MSD	BH03	Soluble	Solid	300.0	26091

Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH01

Lab Sample ID: 890-2328-1

Date Collected: 05/19/22 09:05

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25990	05/23/22 15:46	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 01:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 11:08	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		5			26235	05/27/22 12:55	SC	XEN MID

Client Sample ID: BH01

Lab Sample ID: 890-2328-2

Date Collected: 05/19/22 09:30

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 02:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 12:13	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		5			26235	05/27/22 13:04	SC	XEN MID

Client Sample ID: BH02

Lab Sample ID: 890-2328-3

Date Collected: 05/19/22 09:35

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 02:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 12:35	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 13:13	SC	XEN MID

Client Sample ID: BH02

Lab Sample ID: 890-2328-4

Date Collected: 05/19/22 10:00

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 03:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH02

Lab Sample ID: 890-2328-4

Date Collected: 05/19/22 10:00

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 12:56	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 13:23	SC	XEN MID

Client Sample ID: BH03

Lab Sample ID: 890-2328-5

Date Collected: 05/19/22 10:05

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 03:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 13:18	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 13:32	SC	XEN MID

Client Sample ID: BH03

Lab Sample ID: 890-2328-6

Date Collected: 05/19/22 10:20

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 00:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 13:40	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 13:59	SC	XEN MID

Client Sample ID: BH04

Lab Sample ID: 890-2328-7

Date Collected: 05/19/22 10:25

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 01:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 14:02	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH04

Lab Sample ID: 890-2328-7

Date Collected: 05/19/22 10:25

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 14:09	SC	XEN MID

Client Sample ID: BH04

Lab Sample ID: 890-2328-8

Date Collected: 05/19/22 10:40

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 01:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 14:24	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 14:36	SC	XEN MID

Client Sample ID: BH05

Lab Sample ID: 890-2328-9

Date Collected: 05/19/22 10:45

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 01:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 14:46	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 14:46	SC	XEN MID

Client Sample ID: BH05

Lab Sample ID: 890-2328-10

Date Collected: 05/19/22 11:00

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 02:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 15:07	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 14:55	SC	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH06

Lab Sample ID: 890-2328-11

Date Collected: 05/19/22 11:05

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 02:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 16:13	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 15:04	SC	XEN MID

Client Sample ID: BH06

Lab Sample ID: 890-2328-12

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 02:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 16:34	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 15:13	SC	XEN MID

Client Sample ID: BH07

Lab Sample ID: 890-2328-13

Date Collected: 05/19/22 11:25

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 04:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 16:56	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 15:22	SC	XEN MID

Client Sample ID: BH07

Lab Sample ID: 890-2328-14

Date Collected: 05/19/22 11:40

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 04:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH07

Lab Sample ID: 890-2328-14

Date Collected: 05/19/22 11:40

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 17:17	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26091	05/23/22 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			26235	05/27/22 15:32	SC	XEN MID

Client Sample ID: BH08

Lab Sample ID: 890-2328-15

Date Collected: 05/19/22 11:45

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 04:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 17:39	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 17:45	CH	XEN MID

Client Sample ID: BH08

Lab Sample ID: 890-2328-16

Date Collected: 05/19/22 12:00

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 18:01	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 18:07	CH	XEN MID

Client Sample ID: BH09

Lab Sample ID: 890-2328-17

Date Collected: 05/19/22 12:45

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 05:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 18:23	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH09

Lab Sample ID: 890-2328-17

Date Collected: 05/19/22 12:45

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 18:14	CH	XEN MID

Client Sample ID: BH09

Lab Sample ID: 890-2328-18

Date Collected: 05/19/22 12:55

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 05:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 18:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		5			26223	05/25/22 18:22	CH	XEN MID

Client Sample ID: BH09

Lab Sample ID: 890-2328-19

Date Collected: 05/19/22 13:00

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 06:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 19:06	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		10			26223	05/25/22 18:29	CH	XEN MID

Client Sample ID: BH10

Lab Sample ID: 890-2328-20

Date Collected: 05/19/22 14:55

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 06:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26031	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26022	05/23/22 19:28	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 18:52	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Client Sample ID: BH10

Lab Sample ID: 890-2328-21

Date Collected: 05/19/22 15:05

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 06:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 16:34	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 18:59	CH	XEN MID

Client Sample ID: BH10

Lab Sample ID: 890-2328-22

Date Collected: 05/19/22 15:10

Matrix: Solid

Date Received: 05/20/22 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26102	05/23/22 15:02	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/24/22 07:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26174	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26155	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 16:56	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		10			26223	05/25/22 19:06	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

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

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

Sample Summary

Client: Ensolum
Project/Site: ROSS DRAW UNIT #034

Job ID: 890-2328-1
SDG: 03A197018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2328-1	BH01	Solid	05/19/22 09:05	05/20/22 12:35	1
890-2328-2	BH01	Solid	05/19/22 09:30	05/20/22 12:35	4.5
890-2328-3	BH02	Solid	05/19/22 09:35	05/20/22 12:35	1
890-2328-4	BH02	Solid	05/19/22 10:00	05/20/22 12:35	4.5
890-2328-5	BH03	Solid	05/19/22 10:05	05/20/22 12:35	1
890-2328-6	BH03	Solid	05/19/22 10:20	05/20/22 12:35	4.5
890-2328-7	BH04	Solid	05/19/22 10:25	05/20/22 12:35	1
890-2328-8	BH04	Solid	05/19/22 10:40	05/20/22 12:35	4.5
890-2328-9	BH05	Solid	05/19/22 10:45	05/20/22 12:35	1
890-2328-10	BH05	Solid	05/19/22 11:00	05/20/22 12:35	4.5
890-2328-11	BH06	Solid	05/19/22 11:05	05/20/22 12:35	1
890-2328-12	BH06	Solid	05/19/22 11:20	05/20/22 12:35	4.5
890-2328-13	BH07	Solid	05/19/22 11:25	05/20/22 12:35	1
890-2328-14	BH07	Solid	05/19/22 11:40	05/20/22 12:35	4.5
890-2328-15	BH08	Solid	05/19/22 11:45	05/20/22 12:35	1
890-2328-16	BH08	Solid	05/19/22 12:00	05/20/22 12:35	4.5
890-2328-17	BH09	Solid	05/19/22 12:45	05/20/22 12:35	1
890-2328-18	BH09	Solid	05/19/22 12:55	05/20/22 12:35	3
890-2328-19	BH09	Solid	05/19/22 13:00	05/20/22 12:35	4.5
890-2328-20	BH10	Solid	05/19/22 14:55	05/20/22 12:35	1
890-2328-21	BH10	Solid	05/19/22 15:05	05/20/22 12:35	3
890-2328-22	BH10	Solid	05/19/22 15:10	05/20/22 12:35	4.5

Chain of Custody

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

Environment Testing

Xenco



Work Order No:

3

www.xenco.com Page 1 of 3

Project Manager:	Anna Byers	Bill to: (if different)	YIM RALEY
Company Name:	Endium	Company Name:	Beaver Creek WPX
Address:	3122 NATL PARKWAY	Address:	5315 BUENA VISTA DR.
City, State ZIP:	CARLSBAD NM 88220	City, State ZIP:	CARLSBAD NM 88220
Phone:	575-200-6754	Email:	abeyers@endium.com

Project Name:	ROS Draw Unit #084	Turn Around	☒ Routine ☐ Rush
Project Number:	03A19701R	Due Date:	
Project Location:	Edley County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Uz Chen		
PO #:	N/A		

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TPM-07		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	Temperature Reading:	1.6		
Total Containers:		Corrected Temperature:	1.4		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
BHD1	S	5/19/22	905	1'	G	1	Chloride (ppm)			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
BHD1			930	4.5'			TPH (8015)			DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na
BHD2			935	1'						
BHD2			1000	4.5'						
BHD3			1005	1'						
BHD3			1020	4.5'						
BHD4			1025	1'						
BHD4			1040	4.5'						
BHD5			1045	1'						
BHD5			1000	4.5'						

Total 2007/6010	2008/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/20/22 12:35			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody



Environment Testing
Xenco

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

Work Order No:

2 of 3

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Work Order Comments

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

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Anna Byers

Company Name: ENSIUM

Address: 3122 Natl. Parks Hwy

City, State ZIP: Carlsbad NM 88220

Phone: 575-200-6754

Bill to: (if different)

Company Name: ENSIUM

Address: 5315 Buena Vista Dr.

City, State ZIP: Carlsbad NM 88220

Email: always@ensium.com

Project Name: Ross Row Unit #034

Project Number: 03A19070P

Project Location: Eddy County

Sampler's Name: Liz Chel

PO #: N/A

SAMPLE RECEIPT

Samples Received Intact: Yes No

Cooler Custody Seals: Yes No N/A

Sample Custody Seals: Yes No N/A

Total Containers: 1

Turn Around: ☒ Routine ☐ Rush

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

Wet/Sec: Yes No

Thermometer ID: George

Temperature Reading: 100.0

Corrected Temperature: 100.0

Parameters

Pres. Code

ANALYSIS REQUEST

Preservative Codes

None: NO

DI Water: H₂O

Cool: Cool

MeOH: Me

HCL: HC

HNO₃: HN

H₂SO₄: H₂

NaOH: Na

H₃PO₄: HP

NaHSO₄: NABIS

Na₂S₂O₃: NaSO₃

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Cost Center: 1061093981

Incident #/RP #: 2RP-3322

(NAB1528240224)

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature) Received by: (Signature) Date/Time

1. [Signature] [Signature] 5/29/22 12:39²

3. [Signature] [Signature] 4

5. [Signature] [Signature] 6

Revised Date: 08/25/2020 Rev. 20202

Chain of Custody

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

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager: Anna Buer
Company Name: Eurofins
Address: 3122 Natl. Park Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: 575-200-6754

Bill to: (if different)
Company Name: WPX
Address: 5315 Buena Vista Dr
City, State ZIP: Carlsbad, NM 88220
Email: alyce@xenco.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name: Ross Draw Unit #034
Project Number: 03A1987018
Project Location: Eddy County
Sampler's Name: Liz Chelli
PO #: N/A

Turn Around: ☒ Routine ☐ Rush
Due Date: TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes No
Temp Blank: Yes No
Cooler Custody Seals: Yes No N/A
Sample Custody Seals: Yes No N/A
Total Containers: 1

Wet Ice: Yes No
Thermometer ID: Correction Factor: 0.5
Temperature Reading: 4.5
Corrected Temperature: 4.0

ANALYSIS REQUEST										Preservative Codes	
										None: NO	DI Water: H ₂ O
										Cool: Cool	MeOH: Me
										HCL: HC	HNO ₃ : HN
										H ₂ SO ₄ : H ₂	NaOH: Na
										H ₃ PO ₄ : HP	
										NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
										Sample Comments	
										Cost Center #	
										061093901	
										Incident #/RPH	
										22P-3322	
										NABIS28240224	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5/20/22 17:36			

Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

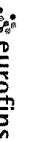
Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact	Phone	Kramer Jessica					890-764 1					
Shipping/Receiving	E-Mail	Jessica.Kramer@eurofins.com					Page 1 of 3					
Company	Accreditations Required (See note):	NE LAP - Texas					Job #					
Eurofins Environment Testing South Centr							890-2328-1					
Address	Due Date Requested	5/26/2022										
1211 W Florida Ave	TAT Requested (days)											
City												
Midland												
State, Zip												
TX, 79701												
Phone:	PO #											
432-704-5440(Tel)	WO #											
Email	Project #	89000084										
Project Name	SSOW#											
ROSS DRAW UNIT #OBU												
Site												
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Tissue, AA=)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
BH01 (890-2328-1)	5/19/22	09 05	Solid		X	X	X	X	X			
BH01 (890-2328-2)	5/19/22	09 30	Solid		X	X	X	X	X			
BH02 (890-2328-3)	5/19/22	09 35	Solid		X	X	X	X	X			
BH02 (890-2328-4)	5/19/22	10 00	Solid		X	X	X	X	X			
BH03 (890-2328-5)	5/19/22	10 05	Solid		X	X	X	X	X			
BH03 (890-2328-6)	5/19/22	10 20	Solid		X	X	X	X	X			
BH04 (890-2328-7)	5/19/22	10 25	Solid		X	X	X	X	X			
BH04 (890-2328-8)	5/19/22	10 40	Solid		X	X	X	X	X			
BH05 (890-2328-9)	5/19/22	10 45	Solid		X	X	X	X	X			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested I II III IV Other (specify)												
Primary Deliverable Rank: 2												
Empty Kit Relinquished by												
Relinquished by												
Relinquished by												
Relinquished by												
Custody Seals Intact												
A Yes A No												
Custody Seal No												
Cooler Temperature(s) °C and Other Remarks:												

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



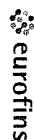
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Kramer Jessica	State of Origin:	New Mexico	890-764 2
Shipping/Receiving	E-Mail	Jessica.Kramer@eurofins.com	Page	Page 2 of 3	
Company:	Accreditations Required (See note):	NE LAP - Texas	Job #	890-2328-1	
Eurofins Environment Testing South Center	Due Date Requested	5/26/2022	Analysis Requested		
Address	1211 W Florida Ave	TAT Requested (days):			
City	Midland	PO #			
State, Zip	TX 79701	WO #			
Phone	432-704-5440(Tel)	Project #			
Email		SSOW#			
Project Name	ROSS DRAW UNIT #OBU	Field Filtered Sample (Yes or No)			
Site		Perform MS/MSD (Yes or No)			
		8015MOD_Calo			
		8015MOD_NM/8015NM_S_Prep Full TPH			
		300_ORGFWM_28D/DI_LEACH Chloride			
		8021B/6036FP_Calo BTEX			
		Total_BTEX_GCV			
		Total Number of containers			
Sample Identification - Client ID (Lab ID)		Special Instructions/Note			
BH05 (890-2328-10)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
BH06 (890-2328-11)	5/19/22	11 00	Solid		
BH06 (890-2328-12)	5/19/22	11 05	Solid		
BH07 (890-2328-13)	5/19/22	11 20	Solid		
BH07 (890-2328-14)	5/19/22	11 25	Solid		
BH07 (890-2328-15)	5/19/22	11 40	Solid		
BH08 (890-2328-16)	5/19/22	11 45	Solid		
BH08 (890-2328-17)	5/19/22	12 00	Solid		
BH09 (890-2328-18)	5/19/22	12 45	Solid		
BH09 (890-2328-19)	5/19/22	12 55	Solid		
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Center, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Center, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Center, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Center, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Special Instructions/QAC Requirements					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Empty Kit Relinquished by:					
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seal Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2328-1

SDG Number: 03A197018

Login Number: 2328

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2328-1

SDG Number: 03A197018

Login Number: 2328

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 05/23/22 08:18 AM

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	2.1/1.9
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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 126780

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 126780
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/14/2022