State of New Mexico
Oil Conservation Division

Incident ID	NAPP2305833429
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following 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: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: __5/9/2023_____

email: __garrett.green@exxonmobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

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: Robert Hamlet Date: 9/21/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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	NAPP2305833429
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.20857 Longitude -103.77105

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 15 Twin Wells Ranch CTB	Site Type Central Tank Battery
Date Release Discovered 02/13/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	22	24S	31E	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) 7.78	Volume Recovered (bbls) 5.00
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	While cleaning bulk separator, crew opened the manway cover to inspect splash plate, resulting in fluids to pad surface. All free fluids were recovered. A third-party contractor has been retained for remediation purposes.	

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2305833429
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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? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

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.

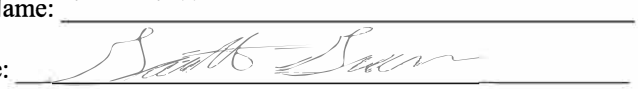
If all the actions described above have not been undertaken, explain why:

NA

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: Garrett Green Title: SSHE Coordinator

Signature:  Date: 2/24/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon Date: 02/27/2023

Location:	PLU 15 Twin Wells Ranch CTB	
Spill Date:	2/13/2023	
Area 1		
Approximate Area =	12990.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	7.78	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**7.78**	**bbls**
Total Produced Water =	**0.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**5.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 190806
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/27/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2305833429
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2305833429
District RP	
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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: Garrett Green Title: Environmental Coordinator

Signature:  Date: 5/9/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2305833429
District RP	
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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: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: __5/9/2023_____

email: __garrett.green@exxonmobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: ___Jocelyn Harimon_____ Date: ___05/12/2023___

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: _____

Printed Name: _____ Title: _____

ENSOLUM

May 9, 2023

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
PLU 15 Twin Wells Ranch CTB
Incident Number NAPP2305833429
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the PLU 15 Twin Wells Ranch CTB (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on excavation activities and soil sampling laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2305833429.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20857°, -103.77105°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 13, 2023, a crew on Site cleaning a bulk separator opened a manway cover to inspect a splash plate, which resulted in the release of approximately 7.78 barrels (bbls) of crude oil onto the surface of the well pad and near active production equipment. A vacuum truck was immediately dispatched to recover free-standing fluids; approximately 5 bbls of crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 24, 2023. The release was assigned Incident Number NAPP2305833429.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 5 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On December 29, 2020, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-4508) was completed approximately 0.31 miles northeast of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4508 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils

continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A. All wells used to determine depth to groundwater are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 14,830 feet northwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from any freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On March 14, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five delineation soil samples (SS01 through SS05) were collected within the release extent at a depth of 0.5 feet bgs. In addition, four delineation soil samples (SS06 through SS09) were collected around the release extent at a depth of 0.5 feet bgs, to assess the lateral extent of the release. The delineation soil samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shippment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation soil samples SS01 through SS05 indicated TPH concentrations exceeded the applicable Site Closure Criteria. Laboratory analytical results for delineation soil samples SS06 through SS09 indicated all COC concentrations were compliant with the applicable Site Closure Criteria, the most stringent Table I Closure Criteria, and successfully defined the lateral extent of the release. Based on visible staining within the release area and laboratory analytical results for soil samples SS01 through SS05, delineation and excavation activities appeared to be warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between March 30, 2023 and April 4, 2023, Ensolum returned to the Site to oversee delineation and excavation activities. Five potholes (PH01 through PH05) were advanced in the vicinity of delineation soil samples SS01 through SS05, respectively, by use of heavy equipment to assess the vertical extent of the release. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 2 feet bgs. Results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The soil samples were collected, field screened, handled, and analyzed following the same procedures as described above. The pothole soil sample locations are depicted on Figure 2. Laboratory analytical results for delineation soil samples (PH01 through PH05) indicated all COC concentrations were compliant with the Site Closure Criteria and vertically defined the release to the most stringent Table I Closure Criteria.

Impacted soil was excavated from the release area as indicated by delineation soil samples SS01 through SS05, which contained elevated TPH concentrations. Excavation activities were performed utilizing a trackhoe and transport vehicles. The excavation occurred on the well pad. To direct excavation activities, soil was screened for VOCs and chloride. In addition, surfical staining within the release extent located near active production equipment was surface scraped via hand tools.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS57 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation soil samples SW01 and SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

The final excavation extent measured approximately 11,313 square feet. A total of approximately 780 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS57 and excavation sidewall samples SW01 through SW06 indicated all COC concentrations were compliant with the Site Closure Criteria. All confirmation soil samples collected indicated all COC concentrations were compliant with the strictest Table I Closure Criteria except for FS53. In order to prevent any potential excavation for future reclamation purposes, Ensolum personnel returned to the Site on April 20, 2023, to recollect in the area of floor sample FS53. One 5-point composite soil sample (FS53A) was collected in the vicinity

of FS53 from the floor of the excavation at a depth of 1-foot bgs. The soil sample was collected, field screened, handled, and analyzed following the same procedures described above. Laboratory analytical results for soil sample FS53A indicated all COC concentrations were compliant with the strictest Table I Closure Criteria, alleviating any concerns regarding the potential for impacts to be present at the time the Site is to be reclaimed. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the February 13, 2023 release of crude oil. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Surface scraping was completed within the release extent, where surficial staining of soil was present but near active production equipment. Based on laboratory analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated adverse effects at this Site. Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2305833429.

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

Sincerely,
Ensolum, LLC

Tabitha Guadian
Assistant Geologist

Ashley L. Ager, MS, PG
Principal

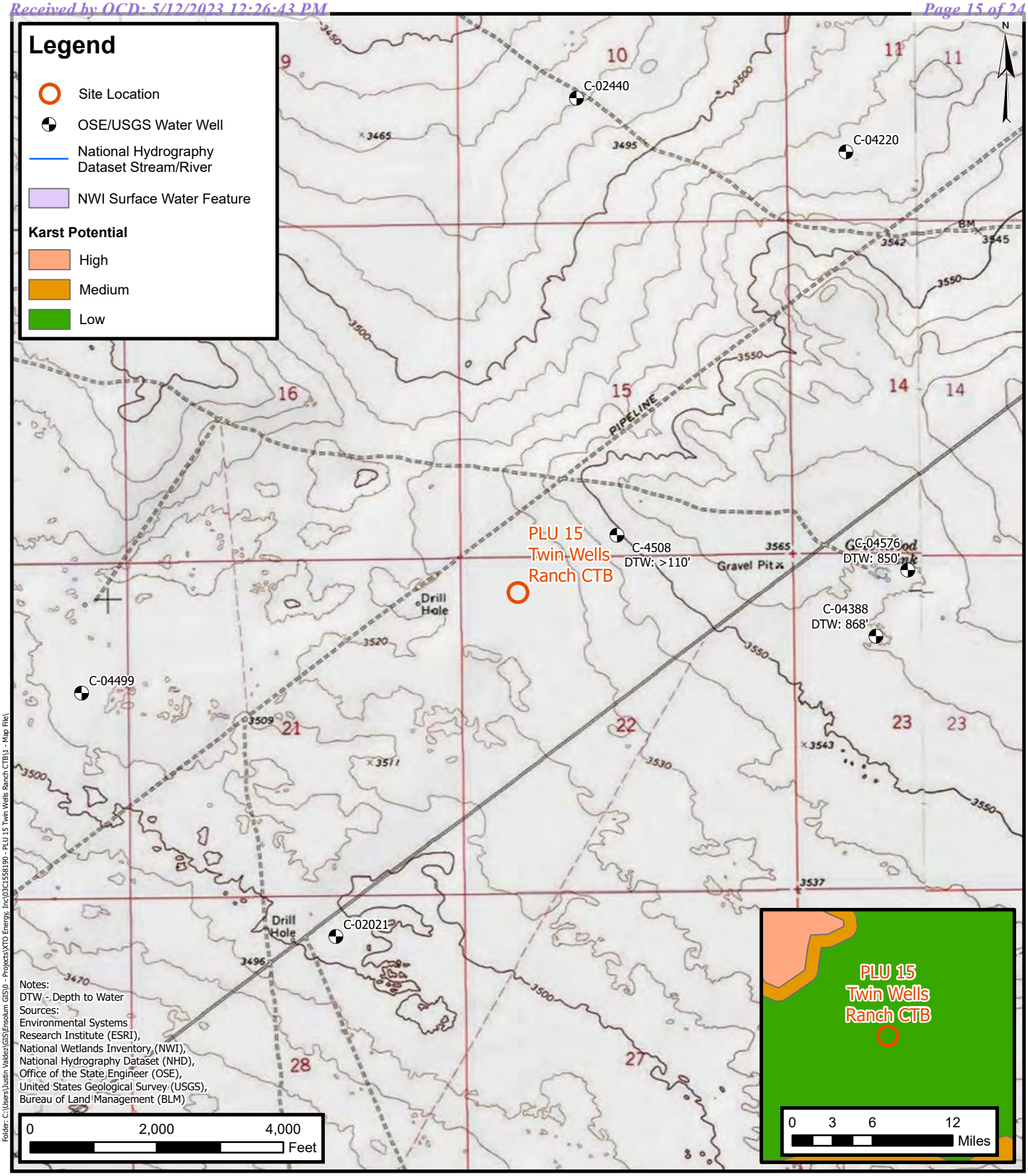
cc: Garrett Green, XTO
Shelby Pennington, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications

ENSOLUM

FIGURES

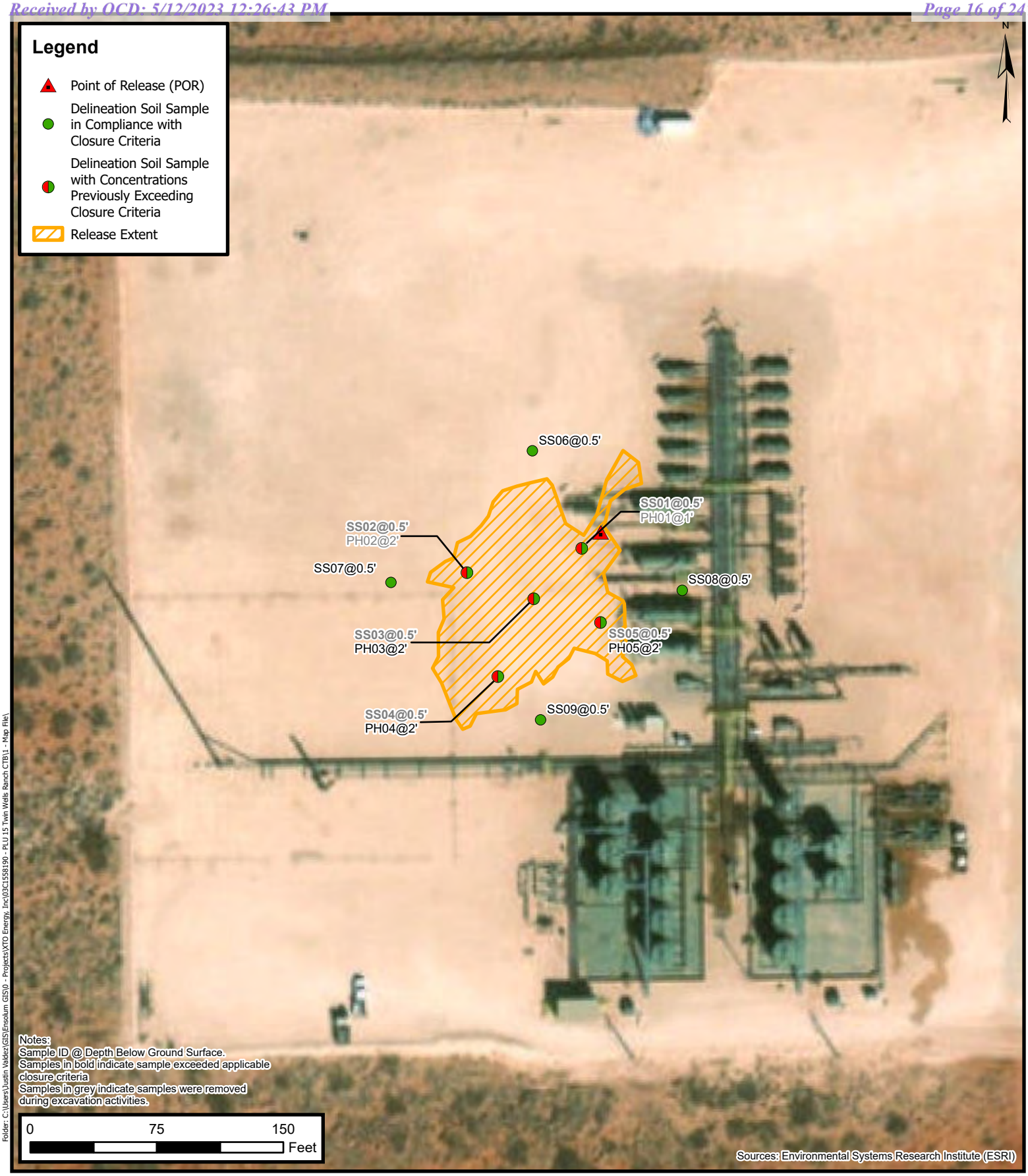


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy INC.
PLU 15 Twin Wells Ranch CTB
Incident Number: NAPP2305833429
Unit D, Section 22, Township 24S, Range 31E
Eddy County, New Mexico

FIGURE 1



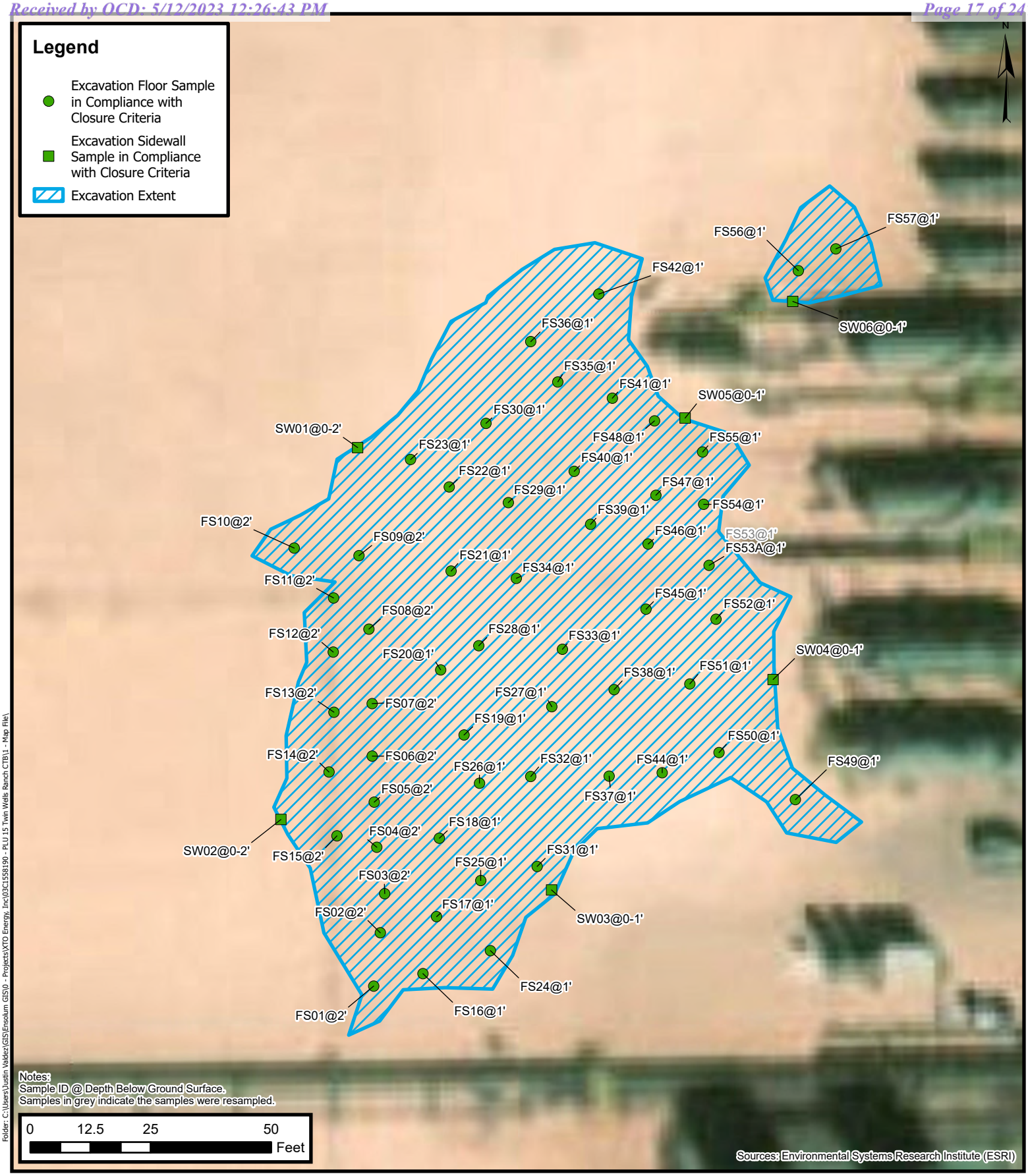
Folder: C:\Users\Justin Valdez\GIS\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558190 - PLU 15 Twin Wells Ranch CTB\1 - Map File\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy INC.
PLU 15 Twin Wells Ranch CTB
Incident Number: NAPP2305833429
Unit D, Section 22, Township 24S, Range 31E
Eddy County, New Mexico

FIGURE 2



Folder: C:\Users\Justin Valdez\GIS\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558190 - PLU 15 Twin Wells Ranch CTB\1 - Map File\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Excavation Soil Sample Locations

XTO Energy INC.
PLU 15 Twin Wells Ranch CTB
Incident Number: NAPP2305833429
Unit D, Section 22, Township 24S, Range 31E
Eddy County, New Mexico

FIGURE 3

ENSOLUM

TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 15 Twin Wells Ranch CTB
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
~~SS01~~	~~03/14/2023~~	~~0.5~~	~~<0.0398~~	~~19.7~~	~~756~~	~~2,600~~	~~331~~	~~**3,360**~~	~~**3,690**~~	~~1,420~~
~~PH01~~	~~03/30/2023~~	~~1~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~499~~
~~SS02~~	~~03/14/2023~~	~~0.5~~	~~<0.0398~~	~~25.1~~	~~1,500~~	~~4,530~~	~~525~~	~~**6,030**~~	~~**6,560**~~	~~701~~
~~PH02~~	~~03/30/2023~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~73.7~~
~~SS03~~	~~03/14/2023~~	~~0.5~~	~~<0.0399~~	~~4.36~~	~~350~~	~~4,340~~	~~481~~	~~**4,690**~~	~~**5,170**~~	~~1,970~~
PH03	03/30/2023	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	61.7
~~SS04~~	~~03/14/2023~~	~~0.5~~	~~0.101~~	~~6.69~~	~~863~~	~~3,980~~	~~473~~	~~**4,840**~~	~~**5,320**~~	~~1,820~~
PH04	03/30/2023	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	87.2
~~SS05~~	~~03/14/2023~~	~~0.5~~	~~<0.0404~~	~~15.9~~	~~820~~	~~4,220~~	~~523~~	~~**5,040**~~	~~**5,560**~~	~~667~~
PH05	03/30/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	43.4
SS06	03/14/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	327
SS07	03/14/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	447
SS08	03/14/2023	0.5	<0.00200	<0.00401	<49.9	50.4	<49.9	50.4	50.4	50.6
SS09	03/14/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	21.2
Confirmation Soil Samples										
FS01	03/30/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	64.5
FS02	03/30/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	87.3
FS03	03/31/2023	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	64.5
FS04	03/31/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	44.4
FS05	03/31/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	45.2
FS06	03/31/2023	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	42.6
FS07	03/31/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	42.1
FS08	03/31/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	73.7
FS09	03/31/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	42.5
FS10	03/31/2023	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	37.5
FS11	03/31/2023	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	55.5
FS12	03/31/2023	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	90.6
FS13	03/31/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	65.5
FS14	03/31/2023	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	61.5
FS15	03/31/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	69.2
FS16	03/31/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	52.7
FS17	03/31/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	78.7
FS18	03/31/2023	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	94.0
FS19	04/03/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	62.1
FS20	04/03/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	62.3

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 15 Twin Wells Ranch CTB
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS21	04/03/2023	1	<0.00200	<0.00399	<49.9	74.2	<49.9	74.2	74.2	101
FS22	04/03/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	147
FS23	04/03/2023	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	49.8
FS24	04/03/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	50.2
FS25	04/03/2023	1	<0.00201	<0.00402	<49.9	66.8	<49.9	66.8	66.8	149
FS26	04/03/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	84.7
FS27	04/03/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	82.1
FS28	04/03/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	49.3
FS29	04/03/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.6
FS30	04/03/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	52.8
FS31	04/03/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	65.6
FS32	04/03/2023	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	75.0
FS33	04/03/2023	1	<0.00199	<0.00398	<49.9	96.8	<49.9	96.8	96.8	92.5
FS34	04/03/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	96.4
FS35	04/03/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	60.9
FS36	04/03/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	49.4
FS37	04/03/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	85.4
FS38	04/03/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	84.7
FS39	04/03/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	92.1
FS40	04/03/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	85.8
FS41	04/03/2023	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	83.0
FS42	04/03/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	62.9
FS43	04/03/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	79.5
FS44	04/03/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	70.3
FS45	04/04/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	44.0
FS46	04/04/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	96.0
FS47	04/04/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	70.2
FS48	04/04/2023	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	42.5
FS49	04/04/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	85.9
FS50	04/04/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	42.2
FS51	04/04/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	60.9
FS52	04/04/2023	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	294
~~FS53~~	~~04/04/2023~~	~~1~~	~~<0.00198~~	~~<0.00396~~	~~<49.9~~	~~200~~	~~<49.9~~	~~200~~	~~200~~	~~229~~
FS53A	04/20/2023	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	88.5
FS54	04/04/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	134

ENSOLUM

TABLE 1
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PLU 15 Twin Wells Ranch CTB
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS55	04/04/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	370
FS56	04/04/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	65.1
FS57	04/04/2023	1	<0.00201	<0.00402	<50.0	59.3	<50.0	59.3	59.3	256
SW01	04/04/2023	0-2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	57.7
SW02	04/04/2023	0-2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.2
SW03	04/04/2023	0-1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	49.9
SW04	04/04/2023	0-1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	67.7
SW05	04/04/2023	0-1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	67.2
SW06	04/04/2023	0-1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	62.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

~~Grey~~ text indicates soil sample removed during excavation activities or area was resampled.

ENSOLUM

APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4508

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	12'	46.69"	N
	LONGITUDE	-103°	45'	55.29"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

SW SE Sec. 15 T24S R31E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/29/2020	12/29/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4508	POD NO. 1	TRN NO. 686651	
LOCATION Exp 1 24S.31E.15.344		WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	14	14	SAND, medium-fine grain, poorly graded,someclaiche, light-brown-tan,dry	Y ✓ N	
14	15	1	SAND, fine grain, poorly graded,someclaiche, light-brown-tan,dry	Y ✓ N	
15	25	5	CALICHE, moderately consolidated,silty, some gravel, off-white-tan, dry	Y ✓ N	
25	46	21	SILTSTONE, mod. consolidated, some sand, red-brown, dry	Y ✓ N	
46	64	18	CLAYSTONE, mod. consolidated, cohesive, few sand, red-brown, dry	Y ✓ N	
64	72	8	SANDSTONE, high consolidated, medium-grain, well graded,white/lightbrown	Y ✓ N	
72	90	18	CLAYSTONE, high consolidated, cohesive, medium plasticity, few sand, red-br	Y ✓ N	
90	101	11	SANDSTONE, high consolidated, fine grain, few silt,white/offwhite	Y ✓ N	
101	108	7	CLAYSTONE, high consolidated, cohesive, med.-low plasticity, few sand, red-b	Y ✓ N	
108	111	3	SANDSTONE, high consolidated, fine grain, few silt, white/offwhite, dry	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 02/11/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4508	POD NO. 1	TRN NO. 686651	
LOCATION		WELL TAG ID NO. —	PAGE 2 OF 2

OSE DII FEB 12 2021 PM3:10

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4508- POD1

Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge

4) Date well plugging began: 1/19/2021 Date well plugging concluded: 1/19/2021

5) GPS Well Location: Latitude: 32 deg, 12 min, 46.69 sec
Longitude: -103 deg, 45 min, 55.29 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 01/29/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

24S.31E.15.344

USE OSE FEB 12 2021 PM 3:10

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 26 gallons	26 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 163 gallons	163 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

OSE DII FEB 12 2021 PM3:10

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

02/11/2021

Date

Version: September 8, 2009
Page 2 of 2

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
PLU 15 Twin Wells Ranch CTB
Incident Number NAPP2305833429

Photograph 1 Date: 03/14/2023
Description: Site assessment, release extent area.
View: East

Photograph 2 Date: 03/30/2023
Description: Delineation activities, PH02.
View: Southeast

Photograph 3 Date: 04/03/2023
Description: Excavation extent.
View: East

Photograph 4 Date: 04/04/2023
Description: Excavation extent.
View: South

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

Sample Name: PH01	Date: 3/30/2023	
Site Name: PLU 15 TWR CTB		
Incident Number: Napp2305833429		
Job Number: 03C1558190		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: DN	Method: Backhoe
Coordinates: 32.208650, -103.770936	Hole Diameter: N/A	Total Depth: 1

Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water and screening calculation includes 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,402	0.2	Y	SS01	0.5	0	CCHE (fill)	0-0.5', CALICHE, moist, tan, unconsolidated fill, light brown staining, mild H/C odor.
							SP	0.5'-1', SAND, moist, reddish brown, fine-medium grained, poorly graded, trace roots, no stain, no odor.
M	470	0.6	N	PH01	1	1	TD	Total depth at 1-foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH02	Date: 3/30/2023
	Site Name: PLU 15 TWR CTB	
	Incident Number: Napp2305833429	
	Job Number: 03C1558190	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: DN	Method: Backhoe
Coordinates: 32.208650, -103.770936	Hole Diameter: N/A	Total Depth: 2

Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water and screening calculation includes 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	700	0.2	Y	SS02	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown/gray, unconsolidated fill, small, loose gravel, no staining, mild H/C odor.
M	280	120	N		1	1	SP	1-2', SAND, dry, dark brown-dark red, fine-med grained, poor;y graded, no staining, no odor.
D	<173	7.5	N	PH02	2	2	TD	Total depth at 2-feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH03	Date: 3/30/2023
	Site Name: PLU 15 TWR CTB	
	Incident Number: Napp2305833429	
	Job Number: 03C1558190	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: DN	Method: Backhoe
Coordinates: 32.208650, -103.770936	Hole Diameter: N/A	Total Depth: 2

Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water and screening calculation includes 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,100	303	Y	SS03	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, unconsolidated fill, small- medium sub-rounded gravel, no staining, no odor.
						1	SP	1-2', SAND, dry, dark brown, dark red, fine-med grain, poorly graded, no staining, no odor.
D	<173	4.2	N	PH03	2	2	TD	Total depth at 2-feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

Sample Name: PH04	Date: 3/30/2023	
Site Name: PLU 15 TWR CTB		
Incident Number: Napp2305833429		
Job Number: 03C1558190		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: DN	Method: Backhoe
Coordinates: 32.208650, -103.770936	Hole Diameter: N/A	Total Depth: 2

Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water and screening calculation includes 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	2,245	920	N	SS04	0.5	0	CCHE (fill)	0-0.5', CALICHE, dry, light brown-gray, unconsolidated fill, small to large subrounded gravel, no staining, no odor.
D	<173	120	N			1	SP	1-2', SAND, dry, dark brown, fine-medium grain, no caliche, dark brown-dark red.
D	<173	9.0	N	PH04	2	2	TD	Total depth at 2-feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH05	Date: 3/30/2023
	Site Name: PLU 15 TWR CTB	
	Incident Number: Napp2305833429	
	Job Number: 03C1558190	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: DN	Method: Backhoe
Coordinates: 32.208650, -103.770936	Hole Diameter: N/A	Total Depth: 2

Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water and screening calculation includes 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	845	647	N	SS05	0.5	0	CCHE (fill)	0-0.5', CALICHE, dry, light brown-gray, unconsolidated fill, small to large subrounded gravel, no staining, no odor.
D	<173	19	N			1	SP	1'-2', SAND, dry,dark brown-dark red, poorly graded, fine-medium grain, no staining,no odor
D	<173	32	N	PH05	2	2	TD	Total depth at 2-feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/27/2023 4:48:07 PM

JOB DESCRIPTION

PLU 15 TWR Battery
SDG NUMBER 03C1558190

JOB NUMBER

890-4313-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

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

Authorization

Generated
3/27/2023 4:48:07 PM

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

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Laboratory Job ID: 890-4313-1
SDG: 03C1558190

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Job ID: 890-4313-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4313-1

Receipt
The samples were received on 3/15/2023 11:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS06 (890-4313-1), SS07 (890-4313-2), SS08 (890-4313-3) and SS09 (890-4313-4).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4308-A-41-F MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-48950/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48950 and analytical batch 880-48944 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS06

Lab Sample ID: 890-4313-1
Matrix: Solid
Date Collected: 03/14/23 14:00
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 02:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 02:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 02:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 02:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 02:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/24/23 10:17*	*03/26/23 02:22*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/24/23 10:17*	*03/26/23 02:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/20/23 08:47	03/20/23 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/20/23 08:47	03/20/23 18:22	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/20/23 08:47	03/20/23 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/20/23 08:47*	*03/20/23 18:22*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/20/23 08:47*	*03/20/23 18:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**327**		4.98		mg/Kg			03/25/23 18:51	1

Client Sample ID: SS07

Lab Sample ID: 890-4313-2
Matrix: Solid
Date Collected: 03/14/23 14:05
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 02:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 02:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 02:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/23 10:17	03/26/23 02:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 02:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 10:17	03/26/23 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/24/23 10:17*	*03/26/23 02:43*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS07

Date Collected: 03/14/23 14:05
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4313-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/24/23 10:17*	*03/26/23 02:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/20/23 08:47	03/20/23 18:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/20/23 08:47	03/20/23 18:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/20/23 08:47	03/20/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*03/20/23 08:47*	*03/20/23 18:43*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/20/23 08:47*	*03/20/23 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**447**		24.8	mg/Kg			03/25/23 18:56	5

Client Sample ID: SS08

Date Collected: 03/14/23 14:10
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4313-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/23 10:17	03/26/23 03:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/23 10:17	03/26/23 03:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/23 10:17	03/26/23 03:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/24/23 10:17	03/26/23 03:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/23 10:17	03/26/23 03:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/24/23 10:17	03/26/23 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/24/23 10:17*	*03/26/23 03:03*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/24/23 10:17*	*03/26/23 03:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.4**		49.9	mg/Kg			03/22/23 16:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS08

Lab Sample ID: 890-4313-3
Matrix: Solid
Date Collected: 03/14/23 14:10
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 08:47	03/20/23 19:04	1
Diesel Range Organics (Over C10-C28)	**50.4**		49.9		mg/Kg		03/20/23 08:47	03/20/23 19:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 08:47	03/20/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/20/23 08:47*	*03/20/23 19:04*	*1*
o-Terphenyl	*96*		*70 - 130*	*03/20/23 08:47*	*03/20/23 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.6**		5.01		mg/Kg			03/25/23 19:01	1

Client Sample ID: SS09

Lab Sample ID: 890-4313-4
Matrix: Solid
Date Collected: 03/14/23 14:15
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/24/23 10:17	03/26/23 03:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/24/23 10:17	03/26/23 03:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/24/23 10:17	03/26/23 03:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/24/23 10:17	03/26/23 03:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/24/23 10:17	03/26/23 03:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/24/23 10:17	03/26/23 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/24/23 10:17*	*03/26/23 03:24*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/24/23 10:17*	*03/26/23 03:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 08:47	03/20/23 19:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 08:47	03/20/23 19:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 08:47	03/20/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*03/20/23 08:47*	*03/20/23 19:25*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/20/23 08:47*	*03/20/23 19:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS09
Date Collected: 03/14/23 14:15
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4313-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		5.03		mg/Kg			03/25/23 19:06	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4308-A-41-F MS	Matrix Spike	133 S1+	98
890-4308-A-41-G MSD	Matrix Spike Duplicate	127	101
890-4313-1	SS06	110	78
890-4313-2	SS07	95	76
890-4313-3	SS08	90	91
890-4313-4	SS09	90	94
LCS 880-49394/1-A	Lab Control Sample	109	105
LCSD 880-49394/2-A	Lab Control Sample Dup	124	85
MB 880-49217/5-A	Method Blank	84	93
MB 880-49394/5-A	Method Blank	81	91

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4313-1	SS06	86	84
890-4313-2	SS07	86	84
890-4313-3	SS08	96	96
890-4313-4	SS09	84	87
890-4348-A-1-B MS	Matrix Spike	116	92
890-4348-A-1-C MSD	Matrix Spike Duplicate	107	84
LCS 880-48950/2-A	Lab Control Sample	122	125
LCSD 880-48950/3-A	Lab Control Sample Dup	137 S1+	122
MB 880-48950/1-A	Method Blank	108	99

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49217/5-A
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49217

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 13:25	03/25/23 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 13:25	03/25/23 14:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/22/23 13:25*	*03/25/23 14:44*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/22/23 13:25*	*03/25/23 14:44*	*1*

Lab Sample ID: MB 880-49394/5-A
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49394

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 10:17	03/26/23 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/24/23 10:17*	*03/26/23 01:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/24/23 10:17*	*03/26/23 01:20*	*1*

Lab Sample ID: LCS 880-49394/1-A
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49394

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09451		mg/Kg		95	70 - 130		
Toluene			0.100	0.08755		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08732		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1898		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.1163		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-49394/2-A
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49394

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09183		mg/Kg		92	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

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

Lab Sample ID: LCSD 880-49394/2-A
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49394

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09252		mg/Kg		93	70 - 130	6	35
Ethylbenzene			0.100	0.09826		mg/Kg		98	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2158		mg/Kg		108	70 - 130	13	35
o-Xylene			0.100	0.1229		mg/Kg		123	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 890-4308-A-41-F MS
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.07314		mg/Kg		73	70 - 130
Toluene	<0.00200	U	0.0998	0.07562		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08006		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1687		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1037		mg/Kg		104	70 - 130

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

Lab Sample ID: 890-4308-A-41-G MSD
Matrix: Solid
Analysis Batch: 49405

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.07695		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.07585		mg/Kg		77	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.08016		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1695		mg/Kg		86	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.09936		mg/Kg		100	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-48950/1-A
Matrix: Solid
Analysis Batch: 48944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48950

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/23 08:47	03/20/23 08:39	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-48950/1-A
Matrix: Solid
Analysis Batch: 48944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48950

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/23 08:47	03/20/23 08:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/23 08:47	03/20/23 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/20/23 08:47*	*03/20/23 08:39*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/20/23 08:47*	*03/20/23 08:39*	*1*

Lab Sample ID: LCS 880-48950/2-A
Matrix: Solid
Analysis Batch: 48944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48950

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1086		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1075		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-48950/3-A
Matrix: Solid
Analysis Batch: 48944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48950

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1032		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1053		mg/Kg		105	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*137*	*S1+*	*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 890-4348-A-1-B MS
Matrix: Solid
Analysis Batch: 48944

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48950

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	211	F1 F2	997	1699	F1	mg/Kg		149	70 - 130		
Diesel Range Organics (Over C10-C28)	582		997	1573		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

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

Lab Sample ID: 890-4348-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48944 — **Prep Batch: 48950**

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	211	F1 F2	998	1318	F2	mg/Kg		111	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	582		998	1477		mg/Kg		90	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49261/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 49470

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/25/23 16:41	1

Lab Sample ID: LCS 880-49261/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 49470

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.3		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-49261/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 49470

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	266.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-25951-A-11-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 49470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	482		250	737.8		mg/Kg		102	90 - 110		

Lab Sample ID: 880-25951-A-11-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 49470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	482		250	739.7		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

GC VOA

Prep Batch: 49217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49217/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	5035	
890-4313-2	SS07	Total/NA	Solid	5035	
890-4313-3	SS08	Total/NA	Solid	5035	
890-4313-4	SS09	Total/NA	Solid	5035	
MB 880-49394/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49394/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49394/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4308-A-41-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4308-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	8021B	49394
890-4313-2	SS07	Total/NA	Solid	8021B	49394
890-4313-3	SS08	Total/NA	Solid	8021B	49394
890-4313-4	SS09	Total/NA	Solid	8021B	49394
MB 880-49217/5-A	Method Blank	Total/NA	Solid	8021B	49217
MB 880-49394/5-A	Method Blank	Total/NA	Solid	8021B	49394
LCS 880-49394/1-A	Lab Control Sample	Total/NA	Solid	8021B	49394
LCSD 880-49394/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49394
890-4308-A-41-F MS	Matrix Spike	Total/NA	Solid	8021B	49394
890-4308-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49394

Analysis Batch: 49527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	Total BTEX	
890-4313-2	SS07	Total/NA	Solid	Total BTEX	
890-4313-3	SS08	Total/NA	Solid	Total BTEX	
890-4313-4	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	8015B NM	48950
890-4313-2	SS07	Total/NA	Solid	8015B NM	48950
890-4313-3	SS08	Total/NA	Solid	8015B NM	48950
890-4313-4	SS09	Total/NA	Solid	8015B NM	48950
MB 880-48950/1-A	Method Blank	Total/NA	Solid	8015B NM	48950
LCS 880-48950/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48950
LCSD 880-48950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48950
890-4348-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48950
890-4348-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48950

Prep Batch: 48950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

GC Semi VOA (Continued)

Prep Batch: 48950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-2	SS07	Total/NA	Solid	8015NM Prep	
890-4313-3	SS08	Total/NA	Solid	8015NM Prep	
890-4313-4	SS09	Total/NA	Solid	8015NM Prep	
MB 880-48950/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48950/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4348-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4348-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Total/NA	Solid	8015 NM	
890-4313-2	SS07	Total/NA	Solid	8015 NM	
890-4313-3	SS08	Total/NA	Solid	8015 NM	
890-4313-4	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Soluble	Solid	DI Leach	
890-4313-2	SS07	Soluble	Solid	DI Leach	
890-4313-3	SS08	Soluble	Solid	DI Leach	
890-4313-4	SS09	Soluble	Solid	DI Leach	
MB 880-49261/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49261/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49261/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25951-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25951-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4313-1	SS06	Soluble	Solid	300.0	49261
890-4313-2	SS07	Soluble	Solid	300.0	49261
890-4313-3	SS08	Soluble	Solid	300.0	49261
890-4313-4	SS09	Soluble	Solid	300.0	49261
MB 880-49261/1-A	Method Blank	Soluble	Solid	300.0	49261
LCS 880-49261/2-A	Lab Control Sample	Soluble	Solid	300.0	49261
LCSD 880-49261/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49261
880-25951-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	49261
880-25951-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49261

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS06

Lab Sample ID: 890-4313-1
Matrix: Solid
Date Collected: 03/14/23 14:00
Date Received: 03/15/23 11:53

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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 02:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49527	03/26/23 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	48950	03/20/23 08:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48944	03/20/23 18:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49261	03/22/23 22:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49470	03/25/23 18:51	SMC	EET MID

Client Sample ID: SS07

Lab Sample ID: 890-4313-2
Matrix: Solid
Date Collected: 03/14/23 14:05
Date Received: 03/15/23 11:53

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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49527	03/26/23 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48950	03/20/23 08:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48944	03/20/23 18:43	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49261	03/22/23 22:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49470	03/25/23 18:56	SMC	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-4313-3
Matrix: Solid
Date Collected: 03/14/23 14:10
Date Received: 03/15/23 11:53

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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49527	03/26/23 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48950	03/20/23 08:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48944	03/20/23 19:04	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49261	03/22/23 22:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49470	03/25/23 19:01	SMC	EET MID

Client Sample ID: SS09

Lab Sample ID: 890-4313-4
Matrix: Solid
Date Collected: 03/14/23 14:15
Date Received: 03/15/23 11:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49527	03/26/23 08:53	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Client Sample ID: SS09

Date Collected: 03/14/23 14:15
Date Received: 03/15/23 11:53

Lab Sample ID: 890-4313-4

Matrix: Solid

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			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48950	03/20/23 08:47	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48944	03/20/23 19:25	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49261	03/22/23 22:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49470	03/25/23 19:06	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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

Method Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4313-1
SDG: 03C1558190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4313-1	SS06	Solid	03/14/23 14:00	03/15/23 11:53	0.5
890-4313-2	SS07	Solid	03/14/23 14:05	03/15/23 11:53	0.5
890-4313-3	SS08	Solid	03/14/23 14:10	03/15/23 11:53	0.5
890-4313-4	SS09	Solid	03/14/23 14:15	03/15/23 11:53	0.5

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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

Work Order No: _____

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Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	(WHO07)
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

ANALYSIS REQUEST

Pres. Code

Parameters: CHLORIDES (EPA: 300.0); TPH (8015); BTEX (8021)

890-4313 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS06	S	3/14/23	200	.5	G	1	/	/	/
SS07	"	"	205	.5	"	1	/	/	/
SS08	"	"	210	.5	"	1	/	/	/
SS09	"	"	215	.5	"	1	/	/	/

Sample Comments

Incident ID: nAPP2305833429
Cost Center: 2027711001
AFE:

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 SiO_2 Na Sr Tl 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 Tl 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		3.15.23 1153	3		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4313-1
SDG Number: 03C1558190

Login Number: 4313
List Number: 1
Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4313-1
SDG Number: 03C1558190

Login Number: 4313
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/16/23 10:28 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

PLU 15 TWR Battery
SDG NUMBER 03C1558190

JOB NUMBER

890-4316-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

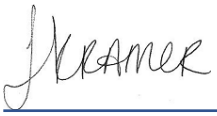
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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3/27/2023 3:17:57 PM

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

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Laboratory Job ID: 890-4316-1
SDG: 03C1558190

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Job ID: 890-4316-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4316-1

Receipt
The samples were received on 3/15/2023 11:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4316-1), SS02 (890-4316-2) and SS05 (890-4316-5). 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: SS03 (890-4316-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49069/47), (LCS 880-49114/2-A) and (LCSD 880-49114/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49114 and analytical batch 880-49069 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-4316-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS01

Lab Sample ID: 890-4316-1
Matrix: Solid
Date Collected: 03/14/23 12:50
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:33	20
Toluene	**1.16**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:33	20
Ethylbenzene	**1.91**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:33	20
m-Xylene & p-Xylene	**12.4**		0.0797		mg/Kg		03/23/23 14:58	03/25/23 07:33	20
o-Xylene	**4.20**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:33	20
Xylenes, Total	**16.6**		0.0797		mg/Kg		03/23/23 14:58	03/25/23 07:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*03/23/23 14:58*	*03/25/23 07:33*	*20*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/23/23 14:58*	*03/25/23 07:33*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**19.7**		0.0797		mg/Kg			03/25/23 16:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3690**		49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**756**		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:13	1
Diesel Range Organics (Over C10-C28)	**2600**		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:13	1
Oil Range Organics (Over C28-C36)	**331**		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/21/23 12:04*	*03/22/23 02:13*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/21/23 12:04*	*03/22/23 02:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1420**		25.0		mg/Kg			03/25/23 15:26	5

Client Sample ID: SS02

Lab Sample ID: 890-4316-2
Matrix: Solid
Date Collected: 03/14/23 12:55
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:53	20
Toluene	**1.49**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:53	20
Ethylbenzene	**2.45**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:53	20
m-Xylene & p-Xylene	**15.9**		0.0795		mg/Kg		03/23/23 14:58	03/25/23 07:53	20
o-Xylene	**5.23**		0.0398		mg/Kg		03/23/23 14:58	03/25/23 07:53	20
Xylenes, Total	**21.1**		0.0795		mg/Kg		03/23/23 14:58	03/25/23 07:53	20

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS02

Lab Sample ID: 890-4316-2
Matrix: Solid
Date Collected: 03/14/23 12:55
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	03/23/23 14:58	03/25/23 07:53	20
1,4-Difluorobenzene (Surr)	45	S1-	70 - 130	03/23/23 14:58	03/25/23 07:53	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	25.1		0.0795		mg/Kg			03/25/23 16:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6560		50.0		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1500		50.0		mg/Kg		03/21/23 12:04	03/22/23 02:35	1
Diesel Range Organics (Over C10-C28)	4530		50.0		mg/Kg		03/21/23 12:04	03/22/23 02:35	1
Oil Range Organics (Over C28-C36)	525		50.0		mg/Kg		03/21/23 12:04	03/22/23 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130	03/21/23 12:04	03/22/23 02:35	1
o-Terphenyl	126		70 - 130	03/21/23 12:04	03/22/23 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	701		5.00		mg/Kg			03/25/23 15:31	1

Client Sample ID: SS03

Lab Sample ID: 890-4316-3
Matrix: Solid
Date Collected: 03/14/23 13:00
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U	0.0399		mg/Kg		03/23/23 14:58	03/25/23 08:14	20
Toluene	0.252		0.0399		mg/Kg		03/23/23 14:58	03/25/23 08:14	20
Ethylbenzene	0.400		0.0399		mg/Kg		03/23/23 14:58	03/25/23 08:14	20
m-Xylene & p-Xylene	2.56		0.0798		mg/Kg		03/23/23 14:58	03/25/23 08:14	20
o-Xylene	1.15		0.0399		mg/Kg		03/23/23 14:58	03/25/23 08:14	20
Xylenes, Total	3.71		0.0798		mg/Kg		03/23/23 14:58	03/25/23 08:14	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/23/23 14:58	03/25/23 08:14	20
1,4-Difluorobenzene (Surr)	81		70 - 130	03/23/23 14:58	03/25/23 08:14	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.36		0.0798		mg/Kg			03/25/23 16:16	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS03

Date Collected: 03/14/23 13:00
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4316-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5170		49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	350		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:58	1
Diesel Range Organics (Over C10-C28)	4340		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:58	1
Oil Range Organics (Over C28-C36)	481		49.9		mg/Kg		03/21/23 12:04	03/22/23 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*03/21/23 12:04*	*03/22/23 02:58*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/21/23 12:04*	*03/22/23 02:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		25.2		mg/Kg			03/25/23 15:35	5

Client Sample ID: SS04

Date Collected: 03/14/23 13:20
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4316-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.101		0.0402		mg/Kg		03/23/23 14:58	03/25/23 08:34	20
Toluene	1.79		0.0402		mg/Kg		03/23/23 14:58	03/25/23 08:34	20
Ethylbenzene	1.57		0.0402		mg/Kg		03/23/23 14:58	03/25/23 08:34	20
m-Xylene & p-Xylene	1.54		0.0805		mg/Kg		03/23/23 14:58	03/25/23 08:34	20
o-Xylene	1.69		0.0402		mg/Kg		03/23/23 14:58	03/25/23 08:34	20
Xylenes, Total	3.23		0.0805		mg/Kg		03/23/23 14:58	03/25/23 08:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/23/23 14:58*	*03/25/23 08:34*	*20*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*03/23/23 14:58*	*03/25/23 08:34*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.69		0.0805		mg/Kg			03/25/23 16:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5320		49.9		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	863		49.9		mg/Kg		03/21/23 12:04	03/22/23 03:20	1
Diesel Range Organics (Over C10-C28)	3980		49.9		mg/Kg		03/21/23 12:04	03/22/23 03:20	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS04

Lab Sample ID: 890-4316-4
Matrix: Solid
Date Collected: 03/14/23 13:20
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	473		49.9		mg/Kg		03/21/23 12:04	03/22/23 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/21/23 12:04*	*03/22/23 03:20*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/21/23 12:04*	*03/22/23 03:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		25.2		mg/Kg			03/25/23 15:40	5

Client Sample ID: SS05

Lab Sample ID: 890-4316-5
Matrix: Solid
Date Collected: 03/14/23 13:25
Date Received: 03/15/23 11:53
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0404	U	0.0404		mg/Kg		03/23/23 14:58	03/25/23 08:55	20
Toluene	0.501		0.0404		mg/Kg		03/23/23 14:58	03/25/23 08:55	20
Ethylbenzene	1.41		0.0404		mg/Kg		03/23/23 14:58	03/25/23 08:55	20
m-Xylene & p-Xylene	9.91		0.0808		mg/Kg		03/23/23 14:58	03/25/23 08:55	20
o-Xylene	4.11		0.0404		mg/Kg		03/23/23 14:58	03/25/23 08:55	20
Xylenes, Total	14.0		0.0808		mg/Kg		03/23/23 14:58	03/25/23 08:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*03/23/23 14:58*	*03/25/23 08:55*	*20*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/23/23 14:58*	*03/25/23 08:55*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	15.9		0.0808		mg/Kg			03/25/23 16:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5560		49.8		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	820		49.8		mg/Kg		03/21/23 12:04	03/22/23 03:42	1
Diesel Range Organics (Over C10-C28)	4220		49.8		mg/Kg		03/21/23 12:04	03/22/23 03:42	1
Oil Range Organics (Over C28-C36)	523		49.8		mg/Kg		03/21/23 12:04	03/22/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*03/21/23 12:04*	*03/22/23 03:42*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/21/23 12:04*	*03/22/23 03:42*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS05
Date Collected: 03/14/23 13:25
Date Received: 03/15/23 11:53
Sample Depth: 0.5

Lab Sample ID: 890-4316-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	667		5.02		mg/Kg			03/25/23 15:44	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

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)
890-4314-A-1-E MS	Matrix Spike	113	109
890-4314-A-1-F MSD	Matrix Spike Duplicate	118	105
890-4316-1	SS01	139 S1+	91
890-4316-2	SS02	73	45 S1-
890-4316-3	SS03	116	81
890-4316-4	SS04	89	132 S1+
890-4316-5	SS05	149 S1+	82
LCS 880-49337/1-A	Lab Control Sample	113	109
LCSD 880-49337/2-A	Lab Control Sample Dup	117	110
MB 880-49331/5-A	Method Blank	101	100
MB 880-49337/5-A	Method Blank	101	101

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)
880-26040-A-1-B MS	Matrix Spike	101	104
880-26040-A-1-C MSD	Matrix Spike Duplicate	102	107
890-4316-1	SS01	120	120
890-4316-2	SS02	151 S1+	126
890-4316-3	SS03	118	114
890-4316-4	SS04	115	108
890-4316-5	SS05	127	105
LCS 880-49114/2-A	Lab Control Sample	108	132 S1+
LCSD 880-49114/3-A	Lab Control Sample Dup	109	135 S1+
MB 880-49114/1-A	Method Blank	117	144 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49331/5-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 13:25	03/24/23 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/23/23 13:25*	*03/24/23 12:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/23/23 13:25*	*03/24/23 12:35*	*1*

Lab Sample ID: MB 880-49337/5-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49337

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 14:58	03/25/23 01:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 14:58	03/25/23 01:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 14:58	03/25/23 01:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 14:58	03/25/23 01:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 14:58	03/25/23 01:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 14:58	03/25/23 01:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/23/23 14:58*	*03/25/23 01:09*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/23/23 14:58*	*03/25/23 01:09*	*1*

Lab Sample ID: LCS 880-49337/1-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49337

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1049		mg/Kg		105	70 - 130		
Toluene			0.100	0.1029		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.09246		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1835		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09346		mg/Kg		93	70 - 130		

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

Lab Sample ID: LCSD 880-49337/2-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1146		mg/Kg		115	70 - 130	9	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

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

Lab Sample ID: LCSD 880-49337/2-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1130		mg/Kg		113	70 - 130	9	35
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1988		mg/Kg		99	70 - 130	8	35
o-Xylene			0.100	0.1014		mg/Kg		101	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-4314-A-1-E MS
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.08158		mg/Kg		82	70 - 130
Toluene	<0.00198	U	0.0998	0.07972		mg/Kg		79	70 - 130
Ethylbenzene	<0.00198	U	0.0998	0.07118		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1402		mg/Kg		70	70 - 130
o-Xylene	<0.00198	U	0.0998	0.07249		mg/Kg		73	70 - 130

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

Lab Sample ID: 890-4314-A-1-F MSD
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09825		mg/Kg		98	70 - 130	19	35
Toluene	<0.00198	U	0.100	0.09473		mg/Kg		94	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.100	0.07936		mg/Kg		79	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1542		mg/Kg		77	70 - 130	9	35
o-Xylene	<0.00198	U	0.100	0.07951		mg/Kg		79	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-49114/1-A
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49114

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 19:58	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-49114/1-A
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49114

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 19:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 19:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/21/23 12:04*	*03/21/23 19:58*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*03/21/23 12:04*	*03/21/23 19:58*	*1*

Lab Sample ID: LCS 880-49114/2-A
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49114

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	963.2		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	854.6		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-49114/3-A
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	952.5		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	878.0		mg/Kg		88	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*135*	*S1+*	*70 - 130*

Lab Sample ID: 880-26040-A-1-B MS
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1058		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1078		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

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

Lab Sample ID: 880-26040-A-1-C MSD
Matrix: Solid
Analysis Batch: 49069

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49114

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	998	1066		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1110		mg/Kg		109	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49263/1-A
Matrix: Solid
Analysis Batch: 49472

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/25/23 14:27	1

Lab Sample ID: LCS 880-49263/2-A
Matrix: Solid
Analysis Batch: 49472

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-49263/3-A
Matrix: Solid
Analysis Batch: 49472

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	249.0		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 890-4316-5 MS
Matrix: Solid
Analysis Batch: 49472

Client Sample ID: SS05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	667		251	911.5		mg/Kg		97	90 - 110		

Lab Sample ID: 890-4316-5 MSD
Matrix: Solid
Analysis Batch: 49472

Client Sample ID: SS05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	667		251	914.5		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

GC VOA

Prep Batch: 49331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49331/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	5035	
890-4316-2	SS02	Total/NA	Solid	5035	
890-4316-3	SS03	Total/NA	Solid	5035	
890-4316-4	SS04	Total/NA	Solid	5035	
890-4316-5	SS05	Total/NA	Solid	5035	
MB 880-49337/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49337/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49337/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4314-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4314-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	8021B	49337
890-4316-2	SS02	Total/NA	Solid	8021B	49337
890-4316-3	SS03	Total/NA	Solid	8021B	49337
890-4316-4	SS04	Total/NA	Solid	8021B	49337
890-4316-5	SS05	Total/NA	Solid	8021B	49337
MB 880-49331/5-A	Method Blank	Total/NA	Solid	8021B	49331
MB 880-49337/5-A	Method Blank	Total/NA	Solid	8021B	49337
LCS 880-49337/1-A	Lab Control Sample	Total/NA	Solid	8021B	49337
LCSD 880-49337/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49337
890-4314-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	49337
890-4314-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49337

Analysis Batch: 49497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	Total BTEX	
890-4316-2	SS02	Total/NA	Solid	Total BTEX	
890-4316-3	SS03	Total/NA	Solid	Total BTEX	
890-4316-4	SS04	Total/NA	Solid	Total BTEX	
890-4316-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	8015B NM	49114
890-4316-2	SS02	Total/NA	Solid	8015B NM	49114
890-4316-3	SS03	Total/NA	Solid	8015B NM	49114
890-4316-4	SS04	Total/NA	Solid	8015B NM	49114
890-4316-5	SS05	Total/NA	Solid	8015B NM	49114
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015B NM	49114
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49114
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49114
880-26040-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49114
880-26040-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49114

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

GC Semi VOA

Prep Batch: 49114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	8015NM Prep	
890-4316-2	SS02	Total/NA	Solid	8015NM Prep	
890-4316-3	SS03	Total/NA	Solid	8015NM Prep	
890-4316-4	SS04	Total/NA	Solid	8015NM Prep	
890-4316-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26040-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Total/NA	Solid	8015 NM	
890-4316-2	SS02	Total/NA	Solid	8015 NM	
890-4316-3	SS03	Total/NA	Solid	8015 NM	
890-4316-4	SS04	Total/NA	Solid	8015 NM	
890-4316-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Soluble	Solid	DI Leach	
890-4316-2	SS02	Soluble	Solid	DI Leach	
890-4316-3	SS03	Soluble	Solid	DI Leach	
890-4316-4	SS04	Soluble	Solid	DI Leach	
890-4316-5	SS05	Soluble	Solid	DI Leach	
MB 880-49263/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4316-5 MS	SS05	Soluble	Solid	DI Leach	
890-4316-5 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 49472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4316-1	SS01	Soluble	Solid	300.0	49263
890-4316-2	SS02	Soluble	Solid	300.0	49263
890-4316-3	SS03	Soluble	Solid	300.0	49263
890-4316-4	SS04	Soluble	Solid	300.0	49263
890-4316-5	SS05	Soluble	Solid	300.0	49263
MB 880-49263/1-A	Method Blank	Soluble	Solid	300.0	49263
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	300.0	49263
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49263
890-4316-5 MS	SS05	Soluble	Solid	300.0	49263
890-4316-5 MSD	SS05	Soluble	Solid	300.0	49263

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS01
Date Collected: 03/14/23 12:50
Date Received: 03/15/23 11:53

Lab Sample ID: 890-4316-1
Matrix: Solid

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	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49375	03/25/23 07:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49497	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 02:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49472	03/25/23 15:26	SMC	EET MID

Client Sample ID: SS02
Date Collected: 03/14/23 12:55
Date Received: 03/15/23 11:53

Lab Sample ID: 890-4316-2
Matrix: Solid

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	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49375	03/25/23 07:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49497	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 02:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 15:31	SMC	EET MID

Client Sample ID: SS03
Date Collected: 03/14/23 13:00
Date Received: 03/15/23 11:53

Lab Sample ID: 890-4316-3
Matrix: Solid

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	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49375	03/25/23 08:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49497	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 02:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49472	03/25/23 15:35	SMC	EET MID

Client Sample ID: SS04
Date Collected: 03/14/23 13:20
Date Received: 03/15/23 11:53

Lab Sample ID: 890-4316-4
Matrix: Solid

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	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49375	03/25/23 08:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49497	03/25/23 16:16	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Client Sample ID: SS04

Lab Sample ID: 890-4316-4
Matrix: Solid
Date Collected: 03/14/23 13:20
Date Received: 03/15/23 11:53

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			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 03:20	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49472	03/25/23 15:40	SMC	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-4316-5
Matrix: Solid
Date Collected: 03/14/23 13:25
Date Received: 03/15/23 11:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49375	03/25/23 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49497	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 15:44	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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

Method Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4316-1
SDG: 03C1558190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4316-1	SS01	Solid	03/14/23 12:50	03/15/23 11:53	0.5
890-4316-2	SS02	Solid	03/14/23 12:55	03/15/23 11:53	0.5
890-4316-3	SS03	Solid	03/14/23 13:00	03/15/23 11:53	0.5
890-4316-4	SS04	Solid	03/14/23 13:20	03/15/23 11:53	0.5
890-4316-5	SS05	Solid	03/14/23 13:25	03/15/23 11:53	0.5

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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

Work Order No: _____

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Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TWN007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS01	S	3/14/23	1250	.5	G	1		✓	✓	✓
SS02	S	"	1255	.5	"	1		✓	✓	✓
SS03	S	"	100	.5	"	1		✓	✓	✓
SS04	S	"	120	.5	"	1		✓	✓	✓
SS05	S	"	125	.5	"	1		✓	✓	✓

890-4316 Chain of Custody

Sample Comments

Incident ID: nAPP2305833429
Cost Center: 2027711001
AFE:

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3.15.23 1153			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4316-1
SDG Number: 03C1558190

Login Number: 4316
List Number: 1
Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4316-1
SDG Number: 03C1558190

Login Number: 4316
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/16/23 10:28 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

PLU 15 TWR Battery
SDG NUMBER 03C1558190

JOB NUMBER

890-4469-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

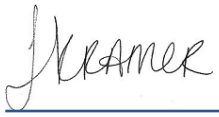
Eurofins Carlsbad

Job Notes

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

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

Authorization



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Revision 1

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

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Job ID: 890-4469-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4469-1

REVISION

The report being provided is a revision of the original report sent on 4/13/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

Report revision history

Receipt
The samples were received on 4/4/2023 2:35 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 0.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4469-1), FS02 (890-4469-2), FS03 (890-4469-3), FS04 (890-4469-4), FS05 (890-4469-5), FS06 (890-4469-6), FS07 (890-4469-7), FS08 (890-4469-8), FS09 (890-4469-9), FS10 (890-4469-10), FS11 (890-4469-11), FS12 (890-4469-12), FS13 (890-4469-13), FS14 (890-4469-14), FS15 (890-4469-15), FS16 (890-4469-16), FS17 (890-4469-17), FS18 (890-4469-18), FS19 (890-4469-19), FS20 (890-4469-20), FS21 (890-4469-21), FS22 (890-4469-22), FS23 (890-4469-23), FS24 (890-4469-24), FS25 (890-4469-25), FS26 (890-4469-26), FS27 (890-4469-27), FS28 (890-4469-28), FS29 (890-4469-29), FS30 (890-4469-30), FS31 (890-4469-31), FS32 (890-4469-32), FS33 (890-4469-33), FS34 (890-4469-34), FS35 (890-4469-35), FS36 (890-4469-36), FS37 (890-4469-37), FS38 (890-4469-38), FS39 (890-4469-39), FS40 (890-4469-40), FS41 (890-4469-41), FS42 (890-4469-42), FS43 (890-4469-43), FS44 (890-4469-44), FS45 (890-4469-45), FS46 (890-4469-46), FS47 (890-4469-47), FS48 (890-4469-48), FS49 (890-4469-49), FS50 (890-4469-50), FS51 (890-4469-51), FS52 (890-4469-52), FS53 (890-4469-53), FS54 (890-4469-54), FS55 (890-4469-55), FS56 (890-4469-56), FS57 (890-4469-57), SW01 (890-4469-58), SW02 (890-4469-59), SW03 (890-4469-60), SW04 (890-4469-61), SW05 (890-4469-62), SW06 (890-4469-63), PH01 (890-4469-64), PH02 (890-4469-65), PH03 (890-4469-66), PH04 (890-4469-67) and PH05 (890-4469-68).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-26569-A-1-F). 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: PH05 (890-4469-68). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-50826 and analytical batch 880-50943 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50990 and analytical batch 880-50945 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS34 (890-4469-34). 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: FS55 (890-4469-55). 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: FS57 (890-4469-57), SW04 (890-4469-61) and SW05 (890-4469-62). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Job ID: 890-4469-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4472-A-5-A). 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: SW04 (890-4469-61). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW06 (890-4469-63). 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: PH02 (890-4469-65), PH03 (890-4469-66) and PH04 (890-4469-67). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-50630 and analytical batch 880-50774 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-50777/20), (CCV 880-50777/5), (LCS 880-50631/2-A) and (LCSD 880-50631/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS42 (890-4469-42), FS43 (890-4469-43), FS44 (890-4469-44), FS45 (890-4469-45), (890-4469-A-41-B MS) and (890-4469-A-41-C MSD). 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: FS47 (890-4469-47), FS48 (890-4469-48), FS49 (890-4469-49) and FS50 (890-4469-50). 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: FS51 (890-4469-51), FS53 (890-4469-53) and FS54 (890-4469-54). 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: FS56 (890-4469-56), FS57 (890-4469-57), SW01 (890-4469-58) and SW02 (890-4469-59). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-50631 and analytical batch 880-50777 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-50629 and analytical batch 880-50772 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS21 (890-4469-21). 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: FS37 (890-4469-37) and FS53 (890-4469-53). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Job ID: 890-4469-1 (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 matrix spike (MS) recoveries for preparation batch 880-50691 and analytical batch 880-50898 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.FS01 (890-4469-1), FS02 (890-4469-2), FS03 (890-4469-3), FS04 (890-4469-4), FS05 (890-4469-5), FS06 (890-4469-6), FS07 (890-4469-7), FS08 (890-4469-8), FS09 (890-4469-9), FS10 (890-4469-10) and (890-4469-A-1-F MS)

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-50694 and analytical batch 880-50889 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.SW04 (890-4469-61), SW05 (890-4469-62), SW06 (890-4469-63), PH01 (890-4469-64), PH02 (890-4469-65), PH03 (890-4469-66), PH04 (890-4469-67), PH05 (890-4469-68), (880-26740-A-11-B) and (880-26740-A-11-D MSD)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50692 and 880-50692 and analytical batch 880-50890 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.FS21 (890-4469-21), FS22 (890-4469-22), FS23 (890-4469-23), FS24 (890-4469-24), FS25 (890-4469-25), FS26 (890-4469-26), FS27 (890-4469-27), FS28 (890-4469-28), FS29 (890-4469-29), FS30 (890-4469-30), (890-4469-A-21-E MS) and (890-4469-A-21-F MSD)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50692 and analytical batch 880-50890 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.FS31 (890-4469-31), FS32 (890-4469-32), FS33 (890-4469-33), FS34 (890-4469-34), FS35 (890-4469-35), FS36 (890-4469-36), FS37 (890-4469-37), FS38 (890-4469-38), FS39 (890-4469-39), FS40 (890-4469-40), (890-4469-A-31-C MS) and (890-4469-A-31-D MSD)

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS01

Date Collected: 03/30/23 15:20
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/06/23 15:16	04/09/23 13:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/06/23 15:16	04/09/23 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/06/23 15:16*	*04/09/23 13:29*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*04/06/23 15:16*	*04/09/23 13:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/10/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 11:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 11:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*04/07/23 16:04*	*04/10/23 11:26*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/07/23 16:04*	*04/10/23 11:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.5**	**F1**	4.97		mg/Kg			04/10/23 09:29	1

Client Sample ID: FS02

Date Collected: 03/30/23 15:30
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/06/23 15:16	04/09/23 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/06/23 15:16	04/09/23 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/06/23 15:16	04/09/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*04/06/23 15:16*	*04/09/23 13:49*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS02
Date Collected: 03/30/23 15:30
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/06/23 15:16*	*04/09/23 13:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/10/23 10:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 12:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*04/07/23 16:04*	*04/10/23 12:32*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/07/23 16:04*	*04/10/23 12:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.3**		4.99	mg/Kg			04/10/23 09:43	1

Client Sample ID: FS03
Date Collected: 03/31/23 10:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:27	04/12/23 11:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:27	04/12/23 11:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:27	04/12/23 11:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/10/23 11:27	04/12/23 11:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:27	04/12/23 11:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/10/23 11:27	04/12/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/10/23 11:27*	*04/12/23 11:48*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/10/23 11:27*	*04/12/23 11:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 11:24	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS03
Date Collected: 03/31/23 10:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 12:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 12:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*04/07/23 16:04*	*04/10/23 12:54*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/07/23 16:04*	*04/10/23 12:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.5**		4.96		mg/Kg			04/10/23 09:48	1

Client Sample ID: FS04
Date Collected: 03/31/23 11:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 12:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 12:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 12:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 12:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 12:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:09*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*04/07/23 16:04*	*04/10/23 13:17*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/07/23 16:04*	*04/10/23 13:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS04

Date Collected: 03/31/23 11:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		5.04		mg/Kg			04/10/23 09:53	1

Client Sample ID: FS05

Date Collected: 03/31/23 11:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:29*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*04/07/23 16:04*	*04/10/23 13:39*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/07/23 16:04*	*04/10/23 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		5.02		mg/Kg			04/10/23 09:58	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS06

Date Collected: 03/31/23 11:30
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 12:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 12:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 12:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 12:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 12:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:50*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:27*	*04/12/23 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 14:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 14:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:01*	*1*
o-Terphenyl	*76*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.6**		5.01		mg/Kg			04/10/23 10:12	1

Client Sample ID: FS07

Date Collected: 03/31/23 11:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 13:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS07
Date Collected: 03/31/23 11:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 14:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 14:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 16:04	04/10/23 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:23*	*1*
o-Terphenyl	*84*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.1**		4.98	mg/Kg			04/10/23 10:17	1

Client Sample ID: FS08
Date Collected: 03/31/23 12:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 13:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 13:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 11:27	04/12/23 13:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 13:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 11:27	04/12/23 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:31*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 11:24	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS08

Date Collected: 03/31/23 12:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 14:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 14:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:45*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/07/23 16:04*	*04/10/23 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.7**		4.99		mg/Kg			04/10/23 10:22	1

Client Sample ID: FS09

Date Collected: 03/31/23 12:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 13:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 13:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:27*	*04/12/23 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*04/07/23 16:04*	*04/10/23 15:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/07/23 16:04*	*04/10/23 15:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS09

Lab Sample ID: 890-4469-9
Matrix: Solid
Date Collected: 03/31/23 12:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.5		5.05		mg/Kg			04/10/23 10:27	1

Client Sample ID: FS10

Lab Sample ID: 890-4469-10
Matrix: Solid
Date Collected: 03/31/23 12:30
Date Received: 04/04/23 14:35
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:12*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 15:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 15:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:04	04/10/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/07/23 16:04*	*04/10/23 15:28*	*1*
o-Terphenyl	*79*		*70 - 130*	*04/07/23 16:04*	*04/10/23 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.5		5.05		mg/Kg			04/10/23 10:32	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS11

Date Collected: 03/31/23 12:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 14:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:32*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 16:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:12*	*1*
o-Terphenyl	*76*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.5**		5.00		mg/Kg			04/10/23 10:37	1

Client Sample ID: FS12

Date Collected: 03/31/23 13:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 11:27	04/12/23 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 14:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 11:27	04/12/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS12
Date Collected: 03/31/23 13:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:27*	*04/12/23 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/12/23 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/07/23 16:04	04/10/23 16:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/07/23 16:04	04/10/23 16:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/07/23 16:04	04/10/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:33*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.6**		5.03	mg/Kg			04/10/23 10:51	1

Client Sample ID: FS13
Date Collected: 03/31/23 14:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 17:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 17:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 17:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 11:27	04/12/23 17:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:27	04/12/23 17:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 11:27	04/12/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:10*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 11:24	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS13

Date Collected: 03/31/23 14:00
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 16:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 16:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:55*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/07/23 16:04*	*04/10/23 16:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.5**		5.05		mg/Kg			04/10/23 10:56	1

Client Sample ID: FS14

Date Collected: 03/31/23 14:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:27	04/12/23 17:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:27	04/12/23 17:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:27	04/12/23 17:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/10/23 11:27	04/12/23 17:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:27	04/12/23 17:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/10/23 11:27	04/12/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 17:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 17:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*04/07/23 16:04*	*04/10/23 17:16*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/07/23 16:04*	*04/10/23 17:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS14
Date Collected: 03/31/23 14:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		4.98		mg/Kg			04/10/23 11:10	1

Client Sample ID: FS15
Date Collected: 03/31/23 14:30
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 17:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 17:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 17:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 17:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:51*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:27*	*04/12/23 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 17:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/07/23 16:04*	*04/10/23 17:38*	*1*
o-Terphenyl	*85*		*70 - 130*	*04/07/23 16:04*	*04/10/23 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		4.99		mg/Kg			04/10/23 11:15	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS16

Lab Sample ID: 890-4469-16
Matrix: Solid
Date Collected: 03/31/23 14:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 18:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 18:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 18:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:11*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 18:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/10/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*04/07/23 16:04*	*04/10/23 18:00*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/07/23 16:04*	*04/10/23 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.7**		5.00		mg/Kg			04/10/23 11:20	1

Client Sample ID: FS17

Lab Sample ID: 890-4469-17
Matrix: Solid
Date Collected: 03/31/23 15:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 18:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 18:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 18:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 18:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 18:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS17
Date Collected: 03/31/23 15:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*04/14/23 14:48*	*04/16/23 04:18*	*1*
o-Terphenyl	*75*		*70 - 130*	*04/14/23 14:48*	*04/16/23 04:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.7**		4.98	mg/Kg			04/10/23 11:25	1

Client Sample ID: FS18
Date Collected: 03/31/23 15:15
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:27	04/12/23 18:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:27	04/12/23 18:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:27	04/12/23 18:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/10/23 11:27	04/12/23 18:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:27	04/12/23 18:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/10/23 11:27	04/12/23 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:52*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 18:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 11:24	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS18
Date Collected: 03/31/23 15:15
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.0**		5.02		mg/Kg			04/10/23 11:30	1

Client Sample ID: FS19
Date Collected: 04/03/23 09:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 19:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:13*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:04	04/11/23 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:28*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS19

Lab Sample ID: 890-4469-19
Matrix: Solid
Date Collected: 04/03/23 09:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.1		5.04		mg/Kg			04/10/23 11:35	1

Client Sample ID: FS20

Lab Sample ID: 890-4469-20
Matrix: Solid
Date Collected: 04/03/23 09:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 19:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:27	04/12/23 19:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:27	04/12/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:33*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/11/23 07:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/11/23 07:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/11/23 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:50*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/07/23 16:04*	*04/11/23 07:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.3		4.97		mg/Kg			04/10/23 11:39	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS21

Date Collected: 04/03/23 09:50
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 19:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 19:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 19:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 19:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 19:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:27	04/12/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:54*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:27*	*04/12/23 19:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.2**		49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/14/23 14:48	04/16/23 04:38	1
Diesel Range Organics (Over C10-C28)	**74.2**		49.9		mg/Kg		04/14/23 14:48	04/16/23 04:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/23 14:48	04/16/23 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/14/23 14:48*	*04/16/23 04:38*	*1*
o-Terphenyl	*70*		*70 - 130*	*04/14/23 14:48*	*04/16/23 04:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**	**F1**	5.02		mg/Kg			04/10/23 09:47	1

Client Sample ID: FS22

Date Collected: 04/03/23 10:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 20:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 20:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 20:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 20:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:27	04/12/23 20:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:27	04/12/23 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/10/23 11:27*	*04/12/23 20:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS22
Date Collected: 04/03/23 10:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-22
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:27*	*04/12/23 20:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/13/23 12:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/07/23 16:09	04/10/23 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 16:09	04/10/23 12:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 16:09	04/10/23 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/07/23 16:09*	*04/10/23 12:32*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/07/23 16:09*	*04/10/23 12:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.00	mg/Kg			04/10/23 10:01	1

Client Sample ID: FS23
Date Collected: 04/03/23 10:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:38	04/12/23 11:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:38	04/12/23 11:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:38	04/12/23 11:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/10/23 11:38	04/12/23 11:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/10/23 11:38	04/12/23 11:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/10/23 11:38	04/12/23 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:34*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 09:43	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS23
Date Collected: 04/03/23 10:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 12:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 12:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/07/23 16:09*	*04/10/23 12:54*	*1*
o-Terphenyl	*88*		*70 - 130*	*04/07/23 16:09*	*04/10/23 12:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.8**		4.98		mg/Kg			04/10/23 10:06	1

Client Sample ID: FS24
Date Collected: 04/03/23 10:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 11:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 11:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 11:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 11:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 11:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:55*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 13:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/07/23 16:09*	*04/10/23 13:17*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/07/23 16:09*	*04/10/23 13:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS24
Date Collected: 04/03/23 10:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.2**		5.03		mg/Kg			04/10/23 10:10	1

Client Sample ID: FS25
Date Collected: 04/03/23 13:35
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 12:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 12:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 12:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 12:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 12:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:16*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**66.8**		49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 13:39	1
Diesel Range Organics (Over C10-C28)	**66.8**		49.9		mg/Kg		04/07/23 16:09	04/10/23 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/07/23 16:09*	*04/10/23 13:39*	*1*
o-Terphenyl	*96*		*70 - 130*	*04/07/23 16:09*	*04/10/23 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		5.04		mg/Kg			04/10/23 10:15	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS26

Lab Sample ID: 890-4469-26
Matrix: Solid
Date Collected: 04/03/23 13:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 12:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 11:38	04/12/23 12:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 12:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 11:38	04/12/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:37*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 14:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 14:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.7**		5.00		mg/Kg			04/10/23 10:28	1

Client Sample ID: FS27

Lab Sample ID: 890-4469-27
Matrix: Solid
Date Collected: 04/03/23 13:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:38	04/12/23 12:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:38	04/12/23 12:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:38	04/12/23 12:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/10/23 11:38	04/12/23 12:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/10/23 11:38	04/12/23 12:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/10/23 11:38	04/12/23 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:58*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS27
Date Collected: 04/03/23 13:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-27
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:38*	*04/12/23 12:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/07/23 16:09	04/10/23 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/07/23 16:09	04/10/23 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/07/23 16:09	04/10/23 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:23*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.1**		4.97	mg/Kg			04/10/23 10:33	1

Client Sample ID: FS28
Date Collected: 04/03/23 13:50
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 13:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 13:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 13:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 13:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:38*	*04/12/23 13:18*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:38*	*04/12/23 13:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:43	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS28
Date Collected: 04/03/23 13:50
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 14:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 14:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:45*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/07/23 16:09*	*04/10/23 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.3**		4.98		mg/Kg			04/10/23 10:37	1

Client Sample ID: FS29
Date Collected: 04/03/23 13:55
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 13:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 13:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 13:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 13:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 13:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:38*	*04/12/23 13:39*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/10/23 11:38*	*04/12/23 13:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 15:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/07/23 16:09*	*04/10/23 15:06*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/07/23 16:09*	*04/10/23 15:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS29
Date Collected: 04/03/23 13:55
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.6		5.01		mg/Kg			04/10/23 10:42	1

Client Sample ID: FS30
Date Collected: 04/03/23 14:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-30
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 14:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 14:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 14:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 14:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 14:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:00*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 15:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 15:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/10/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/07/23 16:09*	*04/10/23 15:28*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/07/23 16:09*	*04/10/23 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.8		4.99		mg/Kg			04/10/23 10:47	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS31
Date Collected: 04/03/23 14:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 14:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 14:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 14:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 14:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 14:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:21*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 16:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:12*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.6**	**F1**	5.03		mg/Kg			04/10/23 10:51	1

Client Sample ID: FS32
Date Collected: 04/03/23 14:10
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 14:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 14:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 14:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/10/23 11:38	04/12/23 14:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 14:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/10/23 11:38	04/12/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:42*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS32
Date Collected: 04/03/23 14:10
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-32
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:38*	*04/12/23 14:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/07/23 16:09	04/10/23 16:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/07/23 16:09	04/10/23 16:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/07/23 16:09	04/10/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:33*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.0**		5.05	mg/Kg			04/10/23 11:05	1

Client Sample ID: FS33
Date Collected: 04/03/23 14:15
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 16:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 16:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 16:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 16:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/10/23 11:38*	*04/12/23 16:56*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:38*	*04/12/23 16:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**96.8**		49.9	mg/Kg			04/11/23 09:43	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS33

Date Collected: 04/03/23 14:15
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 16:55	1
Diesel Range Organics (Over C10-C28)	**96.8**		49.9		mg/Kg		04/07/23 16:09	04/10/23 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:55*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/07/23 16:09*	*04/10/23 16:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		5.02		mg/Kg			04/10/23 11:09	1

Client Sample ID: FS34

Date Collected: 04/03/23 14:20
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 17:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 17:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*04/10/23 11:38*	*04/12/23 17:16*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*04/10/23 11:38*	*04/12/23 17:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 17:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 17:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/07/23 16:09*	*04/10/23 17:16*	*1*
o-Terphenyl	*117*		*70 - 130*	*04/07/23 16:09*	*04/10/23 17:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS34
Date Collected: 04/03/23 14:20
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-34
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.4		4.98		mg/Kg			04/10/23 11:50	1

Client Sample ID: FS35
Date Collected: 04/03/23 14:25
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/10/23 11:38*	*04/12/23 17:37*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*04/10/23 11:38*	*04/12/23 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 17:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/10/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/07/23 16:09*	*04/10/23 17:38*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/07/23 16:09*	*04/10/23 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		4.97		mg/Kg			04/10/23 11:55	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS36

Date Collected: 04/03/23 14:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-36
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 11:38	04/12/23 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 17:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 11:38	04/12/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 11:38*	*04/12/23 17:58*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*04/10/23 11:38*	*04/12/23 17:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/07/23 16:09*	*04/10/23 18:00*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/07/23 16:09*	*04/10/23 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.4**		4.99		mg/Kg			04/10/23 11:59	1

Client Sample ID: FS37

Date Collected: 04/03/23 14:35
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-37
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 18:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 18:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 18:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 18:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 18:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/10/23 11:38*	*04/12/23 18:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS37
Date Collected: 04/03/23 14:35
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-37
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/10/23 11:38*	*04/12/23 18:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/23 14:48	04/16/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*04/14/23 14:48*	*04/16/23 04:58*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/14/23 14:48*	*04/16/23 04:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.4**		5.04	mg/Kg			04/10/23 12:04	1

Client Sample ID: FS38
Date Collected: 04/03/23 14:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 18:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 18:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 18:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 18:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 11:38	04/12/23 18:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 11:38	04/12/23 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/10/23 11:38*	*04/12/23 18:40*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:38*	*04/12/23 18:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 09:43	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS38
Date Collected: 04/03/23 14:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/11/23 07:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/11/23 07:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:09	04/11/23 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:06*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.7**		4.99		mg/Kg			04/10/23 12:08	1

Client Sample ID: FS39
Date Collected: 04/03/23 14:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-39
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 19:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:38	04/12/23 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:00*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/11/23 07:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/11/23 07:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:09	04/11/23 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:28*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS39

Date Collected: 04/03/23 14:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-39

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		5.02		mg/Kg			04/10/23 12:13	1

Client Sample ID: FS40

Date Collected: 04/03/23 14:50
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-40

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 19:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 19:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 19:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 19:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:38	04/12/23 19:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:38	04/12/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:21*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/11/23 07:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/11/23 07:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/11/23 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:50*	*1*
o-Terphenyl	*81*		*70 - 130*	*04/07/23 16:09*	*04/11/23 07:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.8		5.00		mg/Kg			04/10/23 12:49	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS41

Date Collected: 04/03/23 14:55
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-41
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 19:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 19:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 19:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/10/23 11:38	04/12/23 19:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:38	04/12/23 19:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/10/23 11:38	04/12/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:42*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/10/23 11:38*	*04/12/23 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*04/07/23 16:12*	*04/10/23 11:29*	*1*
o-Terphenyl	*70*		*70 - 130*	*04/07/23 16:12*	*04/10/23 11:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.0**		4.97		mg/Kg			04/10/23 15:57	1

Client Sample ID: FS42

Date Collected: 04/03/23 15:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-42
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:38	04/12/23 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:38	04/12/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/10/23 11:38*	*04/12/23 20:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS42

Date Collected: 04/03/23 15:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-42
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:38*	*04/12/23 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		04/07/23 16:12	04/10/23 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		04/07/23 16:12	04/10/23 12:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/07/23 16:12	04/10/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 12:34*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.9**		4.99	mg/Kg			04/10/23 16:12	1

Client Sample ID: FS43

Date Collected: 04/03/23 15:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		04/10/23 11:43	04/12/23 23:11	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		04/10/23 11:43	04/12/23 23:11	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		04/10/23 11:43	04/12/23 23:11	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	mg/Kg		04/10/23 11:43	04/12/23 23:11	1
o-Xylene	<0.00199	U F2 F1	0.00199	mg/Kg		04/10/23 11:43	04/12/23 23:11	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		04/10/23 11:43	04/12/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:11*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 09:53	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS43
Date Collected: 04/03/23 15:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8		mg/Kg		04/07/23 16:12	04/10/23 12:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		04/07/23 16:12	04/10/23 12:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:12	04/10/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*58*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 12:55*	*1*
o-Terphenyl	*56*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.5**		4.96		mg/Kg			04/10/23 16:17	1

Client Sample ID: FS44
Date Collected: 04/03/23 15:10
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-44
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 23:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 23:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 23:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/12/23 23:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 23:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/12/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:32*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		04/07/23 16:12	04/10/23 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		04/07/23 16:12	04/10/23 13:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:12	04/10/23 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*59*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 13:17*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 13:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS44

Lab Sample ID: 890-4469-44
Matrix: Solid
Date Collected: 04/03/23 15:10
Date Received: 04/04/23 14:35
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.02		mg/Kg			04/10/23 16:22	1

Client Sample ID: FS45

Lab Sample ID: 890-4469-45
Matrix: Solid
Date Collected: 04/04/23 09:20
Date Received: 04/04/23 14:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/12/23 23:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/12/23 23:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/12/23 23:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/12/23 23:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/12/23 23:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/12/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:53*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/10/23 11:43*	*04/12/23 23:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 13:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 13:38*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		5.00		mg/Kg			04/10/23 16:26	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS46
Date Collected: 04/04/23 09:25
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-46
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 00:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 00:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 00:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 11:43	04/13/23 00:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 00:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 11:43	04/13/23 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:13*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8		mg/Kg		04/07/23 16:12	04/10/23 14:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		04/07/23 16:12	04/10/23 14:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:12	04/10/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*04/07/23 16:12*	*04/10/23 14:00*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/07/23 16:12*	*04/10/23 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.0**		5.05		mg/Kg			04/10/23 16:41	1

Client Sample ID: FS47
Date Collected: 04/04/23 09:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-47
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 00:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 00:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 00:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 00:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 00:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:34*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS47
Date Collected: 04/04/23 09:30
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-47
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		04/07/23 16:12	04/10/23 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		04/07/23 16:12	04/10/23 14:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/07/23 16:12	04/10/23 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 14:21*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.2**		4.98	mg/Kg			04/10/23 16:46	1

Client Sample ID: FS48
Date Collected: 04/04/23 09:35
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-48
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 00:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 00:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 00:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/10/23 11:43	04/13/23 00:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 00:54	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/10/23 11:43	04/13/23 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:43*	*04/13/23 00:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS48
Date Collected: 04/04/23 09:35
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-48
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*59*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 14:43*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.5**		4.99		mg/Kg			04/10/23 16:51	1

Client Sample ID: FS49
Date Collected: 04/04/23 09:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-49
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 01:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 01:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 01:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 01:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 01:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:15*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		04/07/23 16:12	04/10/23 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		04/07/23 16:12	04/10/23 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:12	04/10/23 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 15:04*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 15:04*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS49
Date Collected: 04/04/23 09:40
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-49
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.9		5.05		mg/Kg			04/10/23 16:55	1

Client Sample ID: FS50
Date Collected: 04/04/23 09:45
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-50
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 01:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 01:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 01:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 01:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 01:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:36*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8		mg/Kg		04/07/23 16:12	04/10/23 15:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		04/07/23 16:12	04/10/23 15:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:12	04/10/23 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 15:25*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		5.05		mg/Kg			04/10/23 17:00	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS51

Date Collected: 04/04/23 09:50
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-51
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 01:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 01:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 01:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 01:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 01:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:56*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:43*	*04/13/23 01:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 16:09*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 16:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.9**		5.00		mg/Kg			04/10/23 17:05	1

Client Sample ID: FS52

Date Collected: 04/04/23 09:55
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-52
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:43	04/13/23 02:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:43	04/13/23 02:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:43	04/13/23 02:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/10/23 11:43	04/13/23 02:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/10/23 11:43	04/13/23 02:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/10/23 11:43	04/13/23 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*04/10/23 11:43*	*04/13/23 02:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS52

Date Collected: 04/04/23 09:55
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-52
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/10/23 11:43*	*04/13/23 02:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8	mg/Kg		04/07/23 16:12	04/10/23 16:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8	mg/Kg		04/07/23 16:12	04/10/23 16:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/07/23 16:12	04/10/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*04/07/23 16:12*	*04/10/23 16:31*	*1*
o-Terphenyl	*77*		*70 - 130*	*04/07/23 16:12*	*04/10/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**294**		5.03	mg/Kg			04/10/23 17:20	1

Client Sample ID: FS53

Date Collected: 04/04/23 10:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-53
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 03:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 03:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 03:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/10/23 11:43	04/13/23 03:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/10/23 11:43	04/13/23 03:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/10/23 11:43	04/13/23 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:43*	*04/13/23 03:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:43*	*04/13/23 03:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**200**		49.9	mg/Kg			04/11/23 09:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS53
Date Collected: 04/04/23 10:00
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-53
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		04/07/23 16:12	04/10/23 16:52	1
Diesel Range Organics (Over C10-C28)	**200**	*-	49.9		mg/Kg		04/07/23 16:12	04/10/23 16:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:12	04/10/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 16:52*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**		5.05		mg/Kg			04/10/23 17:24	1

Client Sample ID: FS54
Date Collected: 04/04/23 10:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-54
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 04:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*04/10/23 11:43*	*04/13/23 04:02*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/13/23 04:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 17:13*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 17:13*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS54
Date Collected: 04/04/23 10:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-54
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.98		mg/Kg			04/10/23 17:39	1

Client Sample ID: FS55
Date Collected: 04/04/23 10:10
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-55
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 04:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 04:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*04/10/23 11:43*	*04/13/23 04:22*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:43*	*04/13/23 04:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8		mg/Kg		04/07/23 16:12	04/10/23 17:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		04/07/23 16:12	04/10/23 17:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 16:12	04/10/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*04/07/23 16:12*	*04/10/23 17:34*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/07/23 16:12*	*04/10/23 17:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.99		mg/Kg			04/10/23 17:44	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS56

Date Collected: 04/04/23 10:15
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-56
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 04:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 04:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 04:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 04:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 04:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/10/23 11:43*	*04/13/23 04:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 11:43*	*04/13/23 04:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 17:55*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.1**		5.00		mg/Kg			04/10/23 17:49	1

Client Sample ID: FS57

Date Collected: 04/04/23 10:20
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-57
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 05:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 05:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 05:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 05:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 05:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*04/10/23 11:43*	*04/13/23 05:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS57
Date Collected: 04/04/23 10:20
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-57
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/10/23 11:43*	*04/13/23 05:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.3**		50.0	mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		04/07/23 16:12	04/10/23 18:15	1
Diesel Range Organics (Over C10-C28)	**59.3**	***-**	50.0	mg/Kg		04/07/23 16:12	04/10/23 18:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 16:12	04/10/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:15*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**256**		5.04	mg/Kg			04/10/23 17:54	1

Client Sample ID: SW01
Date Collected: 04/04/23 10:25
Date Received: 04/04/23 14:35
Sample Depth: 0-2'

Lab Sample ID: 890-4469-58
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:43	04/13/23 05:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:43	04/13/23 05:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:43	04/13/23 05:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/10/23 11:43	04/13/23 05:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:43	04/13/23 05:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/10/23 11:43	04/13/23 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*04/10/23 11:43*	*04/13/23 05:24*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/10/23 11:43*	*04/13/23 05:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:53	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW01

Date Collected: 04/04/23 10:25
Date Received: 04/04/23 14:35
Sample Depth: 0-2'

Lab Sample ID: 890-4469-58
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 18:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:35*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.7**		5.02		mg/Kg			04/10/23 17:59	1

Client Sample ID: SW02

Date Collected: 04/04/23 10:30
Date Received: 04/04/23 14:35
Sample Depth: 0-2'

Lab Sample ID: 890-4469-59
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 05:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 05:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 05:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 05:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/10/23 11:43*	*04/13/23 05:45*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/10/23 11:43*	*04/13/23 05:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		04/07/23 16:12	04/10/23 18:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		04/07/23 16:12	04/10/23 18:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 16:12	04/10/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:56*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*04/07/23 16:12*	*04/10/23 18:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW02

Lab Sample ID: 890-4469-59
Matrix: Solid
Date Collected: 04/04/23 10:30
Date Received: 04/04/23 14:35
Sample Depth: 0-2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.2		4.97		mg/Kg			04/10/23 18:03	1

Client Sample ID: SW03

Lab Sample ID: 890-4469-60
Matrix: Solid
Date Collected: 04/04/23 10:35
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 06:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 06:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 06:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 06:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 11:43	04/13/23 06:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 11:43	04/13/23 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/13/23 06:05*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/10/23 11:43*	*04/13/23 06:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		04/07/23 16:12	04/10/23 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		04/07/23 16:12	04/10/23 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*04/07/23 16:12*	*04/10/23 19:16*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/07/23 16:12*	*04/10/23 19:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9		4.99		mg/Kg			04/10/23 18:08	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW04

Date Collected: 04/04/23 10:40
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

Lab Sample ID: 890-4469-61
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 06:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 06:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 06:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 06:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/13/23 06:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 11:43	04/13/23 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*	*04/10/23 11:43*	*04/13/23 06:26*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/10/23 11:43*	*04/13/23 06:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 14:43*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.7**		5.02		mg/Kg			04/10/23 17:53	1

Client Sample ID: SW05

Date Collected: 04/04/23 10:45
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

Lab Sample ID: 890-4469-62
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 06:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 06:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 06:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 06:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/10/23 11:43	04/13/23 06:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 11:43	04/13/23 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*45*	*S1-*	*70 - 130*	*04/10/23 11:43*	*04/13/23 06:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW05

Date Collected: 04/04/23 10:45
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

Lab Sample ID: 890-4469-62
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/10/23 11:43*	*04/13/23 06:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/13/23 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/07/23 14:37	04/10/23 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/07/23 14:37	04/10/23 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/07/23 14:37	04/10/23 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/07/23 14:37*	*04/10/23 15:04*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/07/23 14:37*	*04/10/23 15:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.2**		5.05	mg/Kg			04/10/23 17:58	1

Client Sample ID: SW06

Date Collected: 04/04/23 10:50
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

Lab Sample ID: 890-4469-63
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*04/12/23 12:13*	*04/12/23 23:05*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*04/12/23 12:13*	*04/12/23 23:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW06
Date Collected: 04/04/23 10:50
Date Received: 04/04/23 14:35
Sample Depth: 0-1'

Lab Sample ID: 890-4469-63
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 15:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 15:25*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.0**		5.05		mg/Kg			04/10/23 18:11	1

Client Sample ID: PH01
Date Collected: 03/30/23 12:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-64
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 03:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 03:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 03:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 10:41	04/12/23 03:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 03:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 10:41	04/12/23 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*04/10/23 10:41*	*04/12/23 03:59*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 10:41*	*04/12/23 03:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 09:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*04/07/23 14:37*	*04/10/23 16:09*	*1*
o-Terphenyl	*81*		*70 - 130*	*04/07/23 14:37*	*04/10/23 16:09*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH01
Date Collected: 03/30/23 12:05
Date Received: 04/04/23 14:35
Sample Depth: 1'

Lab Sample ID: 890-4469-64
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**499**		4.99		mg/Kg			04/10/23 18:16	1

Client Sample ID: PH02
Date Collected: 03/30/23 12:15
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-65
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 04:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 04:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 04:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/10/23 10:41	04/12/23 04:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:41	04/12/23 04:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 10:41	04/12/23 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*04/10/23 10:41*	*04/12/23 04:19*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 10:41*	*04/12/23 04:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/12/23 09:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:37	04/10/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 16:31*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/07/23 14:37*	*04/10/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.7**		4.97		mg/Kg			04/10/23 18:21	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH03
Date Collected: 03/30/23 12:25
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-66
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 04:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 04:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/10/23 10:41	04/12/23 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 04:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 10:41	04/12/23 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*04/10/23 10:41*	*04/12/23 04:40*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/10/23 10:41*	*04/12/23 04:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/12/23 09:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 14:37	04/10/23 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 14:37	04/10/23 16:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 14:37	04/10/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 16:52*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/07/23 14:37*	*04/10/23 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.7**		5.02		mg/Kg			04/10/23 18:25	1

Client Sample ID: PH04
Date Collected: 03/30/23 12:35
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-67
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 05:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 05:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 05:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 10:41	04/12/23 05:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/12/23 05:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 10:41	04/12/23 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*04/10/23 10:41*	*04/12/23 05:01*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH04

Date Collected: 03/30/23 12:35
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-67
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/10/23 10:41*	*04/12/23 05:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/12/23 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/07/23 14:37	04/10/23 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 14:37	04/10/23 17:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 14:37	04/10/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 17:13*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/07/23 14:37*	*04/10/23 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.2**		4.97	mg/Kg			04/10/23 18:30	1

Client Sample ID: PH05

Date Collected: 03/30/23 12:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-68
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:41	04/12/23 05:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:41	04/12/23 05:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:41	04/12/23 05:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 10:41	04/12/23 05:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:41	04/12/23 05:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 10:41	04/12/23 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/10/23 10:41*	*04/12/23 05:21*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/10/23 10:41*	*04/12/23 05:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/12/23 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/11/23 09:34	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH05

Date Collected: 03/30/23 12:45
Date Received: 04/04/23 14:35
Sample Depth: 2'

Lab Sample ID: 890-4469-68

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*04/07/23 14:37*	*04/10/23 17:34*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/07/23 14:37*	*04/10/23 17:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.4**		4.99		mg/Kg			04/10/23 18:34	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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)
880-26569-A-1-D MS	Matrix Spike	108	112
880-26569-A-1-E MSD	Matrix Spike Duplicate	109	112
880-26816-A-102-C MS	Matrix Spike	120	105
880-26816-A-102-D MSD	Matrix Spike Duplicate	120	98
880-27093-A-1-A MS	Matrix Spike	94	109
880-27093-A-1-B MSD	Matrix Spike Duplicate	71	76
890-4469-1	FS01	96	77
890-4469-2	FS02	88	102
890-4469-3	FS03	96	103
890-4469-3 MS	FS03	99	109
890-4469-3 MSD	FS03	98	109
890-4469-4	FS04	101	107
890-4469-5	FS05	105	106
890-4469-6	FS06	101	106
890-4469-7	FS07	103	108
890-4469-8	FS08	99	108
890-4469-9	FS09	99	107
890-4469-10	FS10	97	108
890-4469-11	FS11	94	106
890-4469-12	FS12	101	107
890-4469-13	FS13	94	106
890-4469-14	FS14	94	104
890-4469-15	FS15	97	110
890-4469-16	FS16	119	111
890-4469-17	FS17	93	107
890-4469-18	FS18	102	108
890-4469-19	FS19	100	108
890-4469-20	FS20	98	107
890-4469-21	FS21	100	109
890-4469-22	FS22	103	108
890-4469-23	FS23	96	110
890-4469-23 MS	FS23	100	106
890-4469-23 MSD	FS23	99	106
890-4469-24	FS24	106	120
890-4469-25	FS25	106	112
890-4469-26	FS26	106	114
890-4469-27	FS27	104	109
890-4469-28	FS28	106	110
890-4469-29	FS29	110	116
890-4469-30	FS30	104	108
890-4469-31	FS31	111	92
890-4469-32	FS32	100	112
890-4469-33	FS33	92	111
890-4469-34	FS34	66 S1-	62 S1-
890-4469-35	FS35	103	121
890-4469-36	FS36	106	121
890-4469-37	FS37	100	116
890-4469-38	FS38	99	112
890-4469-39	FS39	105	111

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)								
890-4469-40	FS40	97	117								
890-4469-41	FS41	99	113								
890-4469-42	FS42	94	112								
890-4469-43	FS43	109	94								
890-4469-43 MS	FS43	91	104								
890-4469-43 MSD	FS43	55 S1-	104								
890-4469-44	FS44	130	112								
890-4469-45	FS45	110	112								
890-4469-46	FS46	123	110								
890-4469-47	FS47	120	104								
890-4469-48	FS48	109	104								
890-4469-49	FS49	122	111								
890-4469-50	FS50	113	109								
890-4469-51	FS51	117	107								
890-4469-52	FS52	119	102								
890-4469-53	FS53	110	107								
890-4469-54	FS54	119	109								
890-4469-55	FS55	49 S1-	107								
890-4469-56	FS56	110	104								
890-4469-57	FS57	66 S1-	89								
890-4469-58	SW01	122	101								
890-4469-59	SW02	114	107								
890-4469-60	SW03	109	109								
890-4469-61	SW04	51 S1-	102								
890-4469-62	SW05	45 S1-	111								
890-4469-63	SW06	83	61 S1-								
890-4469-64	PH01	117	104								
890-4469-65	PH02	128	106								
890-4469-66	PH03	121	106								
890-4469-67	PH04	118	98								
890-4469-68	PH05	131 S1+	108								
LCS 880-50528/1-A	Lab Control Sample	111	114								
LCS 880-50817/1-A	Lab Control Sample	110	101								
LCS 880-50821/1-A	Lab Control Sample	96	110								
LCS 880-50823/1-A	Lab Control Sample	99	103								
LCS 880-50826/1-A	Lab Control Sample	84	98								
LCS 880-50990/1-A	Lab Control Sample	101	108								
LCSD 880-50528/2-A	Lab Control Sample Dup	108	119								
LCSD 880-50817/2-A	Lab Control Sample Dup	102	100								
LCSD 880-50821/2-A	Lab Control Sample Dup	95	104								
LCSD 880-50823/2-A	Lab Control Sample Dup	105	97								
LCSD 880-50826/2-A	Lab Control Sample Dup	94	95								
LCSD 880-50990/2-A	Lab Control Sample Dup	99	112								
MB 880-50516/5-A	Method Blank	77	73								
MB 880-50528/5-A	Method Blank	72	78								
MB 880-50817/5-A	Method Blank	101	88								
MB 880-50821/5-A	Method Blank	91	98								
MB 880-50823/5-A	Method Blank	92	92								
MB 880-50826/5-A	Method Blank	97	87								
MB 880-50827/5-A	Method Blank	79	96								

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
MB 880-50846/5-A	Method Blank	97	90
MB 880-50990/5-A	Method Blank	72	82

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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-4469-1	FS01	125	103
890-4469-1 MS	FS01	127	92
890-4469-1 MSD	FS01	121	87
890-4469-2	FS02	117	93
890-4469-3	FS03	111	86
890-4469-4	FS04	114	90
890-4469-5	FS05	111	86
890-4469-6	FS06	94	76
890-4469-7	FS07	103	84
890-4469-8	FS08	102	83
890-4469-9	FS09	114	92
890-4469-10	FS10	100	79
890-4469-11	FS11	95	76
890-4469-12	FS12	120	98
890-4469-13	FS13	101	80
890-4469-14	FS14	119	93
890-4469-15	FS15	106	85
890-4469-16	FS16	111	89
890-4469-17	FS17	70	75
890-4469-18	FS18	109	92
890-4469-19	FS19	103	83
890-4469-20	FS20	108	86
890-4469-21	FS21	66 S1-	70
890-4469-22	FS22	92	98
890-4469-23	FS23	86	88
890-4469-24	FS24	104	106
890-4469-25	FS25	92	96
890-4469-26	FS26	87	90
890-4469-27	FS27	88	89
890-4469-28	FS28	108	106
890-4469-29	FS29	107	105
890-4469-30	FS30	88	90
890-4469-31	FS31	92	92
890-4469-32	FS32	88	92
890-4469-33	FS33	95	99
890-4469-34	FS34	109	117
890-4469-35	FS35	107	110
890-4469-36	FS36	96	103

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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)										
890-4469-37	FS37	68 S1-	71										
890-4469-38	FS38	96	97										
890-4469-39	FS39	77	78										
890-4469-40	FS40	79	81										
890-4469-41	FS41	70	70										
890-4469-41 MS	FS41	64 S1-	57 S1-										
890-4469-41 MSD	FS41	63 S1-	56 S1-										
890-4469-42	FS42	61 S1-	62 S1-										
890-4469-43	FS43	58 S1-	56 S1-										
890-4469-44	FS44	59 S1-	58 S1-										
890-4469-45	FS45	61 S1-	59 S1-										
890-4469-46	FS46	71	73										
890-4469-47	FS47	62 S1-	60 S1-										
890-4469-48	FS48	59 S1-	58 S1-										
890-4469-49	FS49	63 S1-	65 S1-										
890-4469-50	FS50	62 S1-	62 S1-										
890-4469-51	FS51	61 S1-	61 S1-										
890-4469-52	FS52	75	77										
890-4469-53	FS53	61 S1-	58 S1-										
890-4469-54	FS54	66 S1-	63 S1-										
890-4469-55	FS55	70	72										
890-4469-56	FS56	63 S1-	61 S1-										
890-4469-57	FS57	66 S1-	64 S1-										
890-4469-58	SW01	63 S1-	63 S1-										
890-4469-59	SW02	61 S1-	57 S1-										
890-4469-60	SW03	74	73										
890-4469-61	SW04	63 S1-	64 S1-										
890-4469-62	SW05	77	83										
890-4469-63	SW06	64 S1-	68 S1-										
890-4469-64	PH01	73	81										
890-4469-65	PH02	64 S1-	71										
890-4469-66	PH03	66 S1-	71										
890-4469-67	PH04	66 S1-	73										
890-4469-68	PH05	75	80										
890-4469-A-21-B MS	890-4469-A-21-B MS	114	106										
890-4469-A-21-C MSD	890-4469-A-21-C MSD	95	89										
890-4472-A-5-B MS	Matrix Spike	76	76										
890-4472-A-5-C MSD	Matrix Spike Duplicate	76	73										
890-4507-A-10-C MS	Matrix Spike	77	74										
890-4507-A-10-D MSD	Matrix Spike Duplicate	81	77										
LCS 880-50624/2-A	Lab Control Sample	95	95										
LCS 880-50629/2-A	Lab Control Sample	128	107										
LCS 880-50630/2-A	Lab Control Sample	110	121										
LCS 880-50631/2-A	Lab Control Sample	70	68 S1-										
LCS 880-51210/2-A	Lab Control Sample	75	76										
LCSD 880-50624/3-A	Lab Control Sample Dup	95	96										
LCSD 880-50629/3-A	Lab Control Sample Dup	115	100										
LCSD 880-50630/3-A	Lab Control Sample Dup	102	116										
LCSD 880-50631/3-A	Lab Control Sample Dup	63 S1-	62 S1-										
LCSD 880-51210/3-A	Lab Control Sample Dup	76	76										

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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)								
MB 880-50624/1-A	Method Blank	83	94								
MB 880-50629/1-A	Method Blank	140 S1+	134 S1+								
MB 880-50630/1-A	Method Blank	105	117								
MB 880-50631/1-A	Method Blank	75	80								
MB 880-51210/1-A	Method Blank	110	119								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50516/5-A
Matrix: Solid
Analysis Batch: 50706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50516

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/06/23 12:06	04/08/23 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/06/23 12:06	04/08/23 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/23 12:06	04/08/23 19:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/06/23 12:06	04/08/23 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/23 12:06	04/08/23 19:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/06/23 12:06	04/08/23 19:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*04/06/23 12:06*	*04/08/23 19:21*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*04/06/23 12:06*	*04/08/23 19:21*	*1*

Lab Sample ID: MB 880-50528/5-A
Matrix: Solid
Analysis Batch: 50706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50528

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/06/23 15:16	04/09/23 05:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/06/23 15:16	04/09/23 05:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/23 15:16	04/09/23 05:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/06/23 15:16	04/09/23 05:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/23 15:16	04/09/23 05:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/06/23 15:16	04/09/23 05:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*04/06/23 15:16*	*04/09/23 05:55*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/06/23 15:16*	*04/09/23 05:55*	*1*

Lab Sample ID: LCS 880-50528/1-A
Matrix: Solid
Analysis Batch: 50706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50528

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1092		mg/Kg		109	70 - 130		
Toluene			0.100	0.09997		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.09356		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1959		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1000		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-50528/2-A
Matrix: Solid
Analysis Batch: 50706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50528

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1238		mg/Kg		124	70 - 130	13	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCSD 880-50528/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50706 — **Prep Batch: 50528**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1114		mg/Kg		111	70 - 130	11	35
Ethylbenzene			0.100	0.1059		mg/Kg		106	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2186		mg/Kg		109	70 - 130	11	35
o-Xylene			0.100	0.1114		mg/Kg		111	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: 880-26569-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50706 — **Prep Batch: 50528**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1034		mg/Kg		104	70 - 130
Toluene	<0.00200	U	0.0998	0.09262		mg/Kg		93	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08339		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1698		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08577		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-26569-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50706 — **Prep Batch: 50528**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1004		mg/Kg		101	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.08997		mg/Kg		90	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.08486		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1724		mg/Kg		87	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.08687		mg/Kg		87	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-50817/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50870 — **Prep Batch: 50817**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/11/23 22:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/11/23 22:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/11/23 22:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 10:41	04/11/23 22:47	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-50817/5-A
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50817

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:41	04/11/23 22:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 10:41	04/11/23 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/10/23 10:41*	*04/11/23 22:47*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*04/10/23 10:41*	*04/11/23 22:47*	*1*

Lab Sample ID: LCS 880-50817/1-A
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08898		mg/Kg		89	70 - 130		
Toluene			0.100	0.09560		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2117		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.09494		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-50817/2-A
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08929		mg/Kg		89	70 - 130	0	35
Toluene			0.100	0.09200		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09739		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2002		mg/Kg		100	70 - 130	6	35
o-Xylene			0.100	0.08944		mg/Kg		89	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-26816-A-102-C MS
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.09691		mg/Kg		97	70 - 130		
Toluene	<0.00200	U	0.0998	0.1015		mg/Kg		102	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.1057		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2172		mg/Kg		109	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.09721		mg/Kg		97	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 880-26816-A-102-C MS
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50817

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

Lab Sample ID: 880-26816-A-102-D MSD
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08313		mg/Kg		84	70 - 130	15	35
Toluene	<0.00200	U	0.0990	0.08873		mg/Kg		90	70 - 130	13	35
Ethylbenzene	<0.00200	U	0.0990	0.09269		mg/Kg		94	70 - 130	13	35
m-Xylene & p-Xylene	<0.00400	U	0.198	0.1884		mg/Kg		95	70 - 130	14	35
o-Xylene	<0.00200	U	0.0990	0.08476		mg/Kg		86	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-50821/5-A
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50821

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:27	04/12/23 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:27	04/12/23 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:27	04/12/23 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/10/23 11:27	04/12/23 11:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/10/23 11:27	04/12/23 11:20	1

Lab Sample ID: LCS 880-50821/1-A
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08670		mg/Kg		87	70 - 130		
Toluene			0.100	0.08411		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.07592		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene			0.200	0.1496		mg/Kg		75	70 - 130		
o-Xylene			0.100	0.07605		mg/Kg		76	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCS 880-50821/1-A
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50821

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

Lab Sample ID: LCSD 880-50821/2-A
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07806		mg/Kg		78	70 - 130	10	35
Toluene			0.100	0.07787		mg/Kg		78	70 - 130	8	35
Ethylbenzene			0.100	0.07093		mg/Kg		71	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1404		mg/Kg		70	70 - 130	6	35
o-Xylene			0.100	0.07165		mg/Kg		72	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4469-3 MS
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: FS03
Prep Type: Total/NA
Prep Batch: 50821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0998	0.1078		mg/Kg		108	70 - 130		
Toluene	<0.00198	U	0.0998	0.1038		mg/Kg		104	70 - 130		
Ethylbenzene	<0.00198	U	0.0998	0.09594		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1891		mg/Kg		95	70 - 130		
o-Xylene	<0.00198	U	0.0998	0.09449		mg/Kg		94	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4469-3 MSD
Matrix: Solid
Analysis Batch: 50944

Client Sample ID: FS03
Prep Type: Total/NA
Prep Batch: 50821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1117		mg/Kg		111	70 - 130	4	35
Toluene	<0.00198	U	0.100	0.1097		mg/Kg		109	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.100	0.09862		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1944		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00198	U	0.100	0.09641		mg/Kg		96	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-50823/5-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50823

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:38	04/12/23 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:38	04/12/23 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:38	04/12/23 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:13*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/10/23 11:38*	*04/12/23 11:13*	*1*

Lab Sample ID: LCS 880-50823/1-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1071		mg/Kg		107	70 - 130		
Toluene			0.100	0.1057		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1059		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2095		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.09183		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-50823/2-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50823

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1113		mg/Kg		111	70 - 130	4	35
Toluene			0.100	0.1139		mg/Kg		114	70 - 130	7	35
Ethylbenzene			0.100	0.1148		mg/Kg		115	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2291		mg/Kg		115	70 - 130	9	35
o-Xylene			0.100	0.09939		mg/Kg		99	70 - 130	8	35

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

Lab Sample ID: 890-4469-23 MS
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS23
Prep Type: Total/NA
Prep Batch: 50823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0990	0.1148		mg/Kg		116	70 - 130		
Toluene	<0.00202	U	0.0990	0.1119		mg/Kg		113	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 890-4469-23 MS
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS23
Prep Type: Total/NA
Prep Batch: 50823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0990	0.1127		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2227		mg/Kg		112	70 - 130
o-Xylene	<0.00202	U	0.0990	0.09594		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-4469-23 MSD
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS23
Prep Type: Total/NA
Prep Batch: 50823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.1122		mg/Kg		112	70 - 130	2	35
Toluene	<0.00202	U	0.0998	0.1104		mg/Kg		111	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0998	0.1097		mg/Kg		110	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2193		mg/Kg		110	70 - 130	2	35
o-Xylene	<0.00202	U	0.0998	0.09524		mg/Kg		95	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-50826/5-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50826

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 22:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:43	04/12/23 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:43	04/12/23 22:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:43	04/12/23 22:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 11:43*	*04/12/23 22:49*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/10/23 11:43*	*04/12/23 22:49*	*1*

Lab Sample ID: LCS 880-50826/1-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1102		mg/Kg		110	70 - 130
Toluene	0.100	0.09848		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09239		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1764		mg/Kg		88	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCS 880-50826/1-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.07946		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-50826/2-A
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1145		mg/Kg		115	70 - 130	4	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	9	35
Ethylbenzene			0.100	0.1037		mg/Kg		104	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2008		mg/Kg		100	70 - 130	13	35
o-Xylene			0.100	0.09095		mg/Kg		91	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-4469-43 MS
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS43
Prep Type: Total/NA
Prep Batch: 50826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F2 F1	0.0998	0.09961		mg/Kg		100	70 - 130		
Toluene	<0.00199	U F1	0.0998	0.09196		mg/Kg		92	70 - 130		
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.08970		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1760		mg/Kg		88	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.0998	0.07802		mg/Kg		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-4469-43 MSD
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS43
Prep Type: Total/NA
Prep Batch: 50826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.101	0.05331	F2 F1	mg/Kg		53	70 - 130	61	35
Toluene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.05349	F2 F1	mg/Kg		52	70 - 130	51	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.03258	F2 F1	mg/Kg		16	70 - 130	138	35
o-Xylene	<0.00199	U F2 F1	0.101	0.01874	F2 F1	mg/Kg		18	70 - 130	123	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 890-4469-43 MSD
Matrix: Solid
Analysis Batch: 50943

Client Sample ID: FS43
Prep Type: Total/NA
Prep Batch: 50826

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-50827/5-A
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50827

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/10/23 11:52	04/12/23 10:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 11:52	04/12/23 10:50	1

Lab Sample ID: MB 880-50846/5-A
Matrix: Solid
Analysis Batch: 50870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50846

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:18	04/11/23 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 16:18	04/11/23 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/10/23 16:18	04/11/23 11:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/10/23 16:18	04/11/23 11:26	1

Lab Sample ID: MB 880-50990/5-A
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50990

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/23 12:13	04/12/23 22:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/12/23 12:13	04/12/23 22:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/12/23 12:13	04/12/23 22:22	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-50990/5-A
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50990

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	04/12/23 12:13	04/12/23 22:22	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/12/23 12:13	04/12/23 22:22	1

Lab Sample ID: LCS 880-50990/1-A
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1089		mg/Kg		109	70 - 130
Toluene	0.100	0.09836		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09552		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2013		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130

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

Lab Sample ID: LCSD 880-50990/2-A
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1199		mg/Kg		120	70 - 130	10	35
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	7	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130	5	35
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-27093-A-1-A MS
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0998	0.06239	F1	mg/Kg		63	70 - 130
Toluene	<0.00201	U F1 F2	0.0998	0.05144	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.05442	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1014	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00201	U F1 F2	0.0998	0.05754	F1	mg/Kg		58	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 880-27093-A-1-B MSD
Matrix: Solid
Analysis Batch: 50945

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.02572	F1 F2	mg/Kg		26	70 - 130	83	35
Toluene	<0.00201	U F1 F2	0.0990	0.02450	F1 F2	mg/Kg		25	70 - 130	71	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.02449	F1 F2	mg/Kg		25	70 - 130	76	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.04329	F1 F2	mg/Kg		22	70 - 130	80	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.02653	F1 F2	mg/Kg		27	70 - 130	74	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

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

Lab Sample ID: MB 880-50624/1-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50624

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 08:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 08:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*04/07/23 14:36*	*04/10/23 08:59*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/07/23 14:36*	*04/10/23 08:59*	*1*

Lab Sample ID: LCS 880-50624/2-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50624

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	986.6		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	847.9		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-50624/3-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50624

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	2	20

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCSD 880-50624/3-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50624

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	853.3		mg/Kg		85	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-4472-A-5-B MS
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1128		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	952.2		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: 890-4472-A-5-C MSD
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50624

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	998	1127		mg/Kg		113	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	922.8		mg/Kg		89	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-50629/1-A
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 08:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 08:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:04	04/10/23 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*04/07/23 16:04*	*04/10/23 08:52*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*04/07/23 16:04*	*04/10/23 08:52*	*1*

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCS 880-50629/2-A
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1154		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1136		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-50629/3-A
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1000		mg/Kg		100	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-4469-1 MS
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 50629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1076		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1103		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-4469-1 MSD
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 50629

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	<49.9	U	997	1056		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1037		mg/Kg		104	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 890-4469-1 MSD
Matrix: Solid
Analysis Batch: 50772

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 50629

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

Lab Sample ID: MB 880-50630/1-A
Matrix: Solid
Analysis Batch: 50774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50630

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 08:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 08:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:09	04/10/23 08:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	04/07/23 16:09	04/10/23 08:52	1
o-Terphenyl	117		70 - 130	04/07/23 16:09	04/10/23 08:52	1

Lab Sample ID: LCS 880-50630/2-A
Matrix: Solid
Analysis Batch: 50774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1063		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	922.9		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-50630/3-A
Matrix: Solid
Analysis Batch: 50774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50630

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	926.3		mg/Kg		93	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	116		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 890-4469-A-21-B MS — **Client Sample ID: 890-4469-A-21-B MS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50774 — **Prep Batch: 50630**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	1045		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	106		1000	1126		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: 890-4469-A-21-C MSD — **Client Sample ID: 890-4469-A-21-C MSD**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50774 — **Prep Batch: 50630**

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	<49.9	U F2	998	820.4	F2	mg/Kg		80	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	106		998	930.9		mg/Kg		83	70 - 130	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: MB 880-50631/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50777 — **Prep Batch: 50631**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 08:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 08:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 16:12	04/10/23 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*04/07/23 16:12*	*04/10/23 08:59*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/07/23 16:12*	*04/10/23 08:59*	*1*

Lab Sample ID: LCS 880-50631/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50777 — **Prep Batch: 50631**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	744.8		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)			1000	610.5	*-	mg/Kg		61	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: LCS 880-50631/2-A
Matrix: Solid
Analysis Batch: 50777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50631

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: LCSD 880-50631/3-A
Matrix: Solid
Analysis Batch: 50777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50631

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	533.8	*- *1	mg/Kg		53	70 - 130	33	20
Diesel Range Organics (Over C10-C28)			1000	505.6	*-	mg/Kg		51	70 - 130	19	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	62	S1-	70 - 130

Lab Sample ID: 890-4469-41 MS
Matrix: Solid
Analysis Batch: 50777

Client Sample ID: FS41
Prep Type: Total/NA
Prep Batch: 50631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	997	831.1		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *-	997	784.8		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	64	S1-	70 - 130
o-Terphenyl	57	S1-	70 - 130

Lab Sample ID: 890-4469-41 MSD
Matrix: Solid
Analysis Batch: 50777

Client Sample ID: FS41
Prep Type: Total/NA
Prep Batch: 50631

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	1000	783.8		mg/Kg		78	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U *-	1000	779.5		mg/Kg		76	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	56	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-51210/1-A
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51210

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/14/23 14:48	04/15/23 20:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/23 14:48	04/15/23 20:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/23 14:48	04/15/23 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/14/23 14:48*	*04/15/23 20:46*	*1*
o-Terphenyl	*119*		*70 - 130*	*04/14/23 14:48*	*04/15/23 20:46*	*1*

Lab Sample ID: LCS 880-51210/2-A
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1038		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	887.6		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: LCSD 880-51210/3-A
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1030		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	872.1		mg/Kg		87	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: 890-4507-A-10-C MS
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1138		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	968.0		mg/Kg		94	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Lab Sample ID: 890-4507-A-10-C MS
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51210

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-4507-A-10-D MSD
Matrix: Solid
Analysis Batch: 51243

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 51210

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	<49.9	U	999	1118		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1018		mg/Kg		99	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50694/1-A
Matrix: Solid
Analysis Batch: 50889

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/10/23 16:22	1

Lab Sample ID: LCS 880-50694/2-A
Matrix: Solid
Analysis Batch: 50889

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.8		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-50694/3-A
Matrix: Solid
Analysis Batch: 50889

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	238.8		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-26740-A-11-C MS
Matrix: Solid
Analysis Batch: 50889

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	408	F1	250	634.0		mg/Kg		90	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-26740-A-11-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50889

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	408	F1	250	629.0	F1	mg/Kg		88	90 - 110	1	20

Lab Sample ID: MB 880-50692/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/10/23 09:34	1

Lab Sample ID: LCS 880-50692/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	233.5		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-50692/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	232.6		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-4469-21 MS — **Client Sample ID: FS21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	101	F1	251	320.9	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 890-4469-21 MSD — **Client Sample ID: FS21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101	F1	251	320.7	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: 890-4469-31 MS — **Client Sample ID: FS31**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	65.6	F1	252	289.6	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 890-4469-31 MSD — **Client Sample ID: FS31**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	65.6	F1	252	287.6	F1	mg/Kg		88	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50693/1-A
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/10/23 15:43	1

Lab Sample ID: LCS 880-50693/2-A
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-50693/3-A
Matrix: Solid
Analysis Batch: 50895

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	246.6		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-4469-41 MS
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: FS41
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	83.0		249	307.9		mg/Kg		91	90 - 110		

Lab Sample ID: 890-4469-41 MSD
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: FS41
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	83.0		249	309.0		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 890-4469-51 MS
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: FS51
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.9		250	299.0		mg/Kg		95	90 - 110		

Lab Sample ID: 890-4469-51 MSD
Matrix: Solid
Analysis Batch: 50895

Client Sample ID: FS51
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.9		250	298.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: MB 880-50691/1-A
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/10/23 09:14	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-50691/2-A
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.1		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-50691/3-A
Matrix: Solid
Analysis Batch: 50898

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4469-1 MS
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	64.5	F1	249	286.6	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 890-4469-1 MSD
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.5	F1	249	287.2		mg/Kg		90	90 - 110	0	20

Lab Sample ID: 890-4469-11 MS
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: FS11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	55.5		250	297.7		mg/Kg		97	90 - 110		

Lab Sample ID: 890-4469-11 MSD
Matrix: Solid
Analysis Batch: 50898

Client Sample ID: FS11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.5		250	297.5		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA

Prep Batch: 50516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50516/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 50528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	5035	
890-4469-2	FS02	Total/NA	Solid	5035	
MB 880-50528/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50528/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50528/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26569-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-26569-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	8021B	50528
890-4469-2	FS02	Total/NA	Solid	8021B	50528
MB 880-50516/5-A	Method Blank	Total/NA	Solid	8021B	50516
MB 880-50528/5-A	Method Blank	Total/NA	Solid	8021B	50528
LCS 880-50528/1-A	Lab Control Sample	Total/NA	Solid	8021B	50528
LCSD 880-50528/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50528
880-26569-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	50528
880-26569-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50528

Analysis Batch: 50816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	Total BTEX	
890-4469-2	FS02	Total/NA	Solid	Total BTEX	
890-4469-3	FS03	Total/NA	Solid	Total BTEX	
890-4469-4	FS04	Total/NA	Solid	Total BTEX	
890-4469-5	FS05	Total/NA	Solid	Total BTEX	
890-4469-6	FS06	Total/NA	Solid	Total BTEX	
890-4469-7	FS07	Total/NA	Solid	Total BTEX	
890-4469-8	FS08	Total/NA	Solid	Total BTEX	
890-4469-9	FS09	Total/NA	Solid	Total BTEX	
890-4469-10	FS10	Total/NA	Solid	Total BTEX	
890-4469-11	FS11	Total/NA	Solid	Total BTEX	
890-4469-12	FS12	Total/NA	Solid	Total BTEX	
890-4469-13	FS13	Total/NA	Solid	Total BTEX	
890-4469-14	FS14	Total/NA	Solid	Total BTEX	
890-4469-15	FS15	Total/NA	Solid	Total BTEX	
890-4469-16	FS16	Total/NA	Solid	Total BTEX	
890-4469-17	FS17	Total/NA	Solid	Total BTEX	
890-4469-18	FS18	Total/NA	Solid	Total BTEX	
890-4469-19	FS19	Total/NA	Solid	Total BTEX	
890-4469-20	FS20	Total/NA	Solid	Total BTEX	
890-4469-21	FS21	Total/NA	Solid	Total BTEX	
890-4469-22	FS22	Total/NA	Solid	Total BTEX	
890-4469-23	FS23	Total/NA	Solid	Total BTEX	
890-4469-24	FS24	Total/NA	Solid	Total BTEX	
890-4469-25	FS25	Total/NA	Solid	Total BTEX	
890-4469-26	FS26	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA (Continued)

Analysis Batch: 50816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-27	FS27	Total/NA	Solid	Total BTEX	
890-4469-28	FS28	Total/NA	Solid	Total BTEX	
890-4469-29	FS29	Total/NA	Solid	Total BTEX	
890-4469-30	FS30	Total/NA	Solid	Total BTEX	
890-4469-31	FS31	Total/NA	Solid	Total BTEX	
890-4469-32	FS32	Total/NA	Solid	Total BTEX	
890-4469-33	FS33	Total/NA	Solid	Total BTEX	
890-4469-34	FS34	Total/NA	Solid	Total BTEX	
890-4469-35	FS35	Total/NA	Solid	Total BTEX	
890-4469-36	FS36	Total/NA	Solid	Total BTEX	
890-4469-37	FS37	Total/NA	Solid	Total BTEX	
890-4469-38	FS38	Total/NA	Solid	Total BTEX	
890-4469-39	FS39	Total/NA	Solid	Total BTEX	
890-4469-40	FS40	Total/NA	Solid	Total BTEX	
890-4469-41	FS41	Total/NA	Solid	Total BTEX	
890-4469-42	FS42	Total/NA	Solid	Total BTEX	
890-4469-43	FS43	Total/NA	Solid	Total BTEX	
890-4469-44	FS44	Total/NA	Solid	Total BTEX	
890-4469-45	FS45	Total/NA	Solid	Total BTEX	
890-4469-46	FS46	Total/NA	Solid	Total BTEX	
890-4469-47	FS47	Total/NA	Solid	Total BTEX	
890-4469-48	FS48	Total/NA	Solid	Total BTEX	
890-4469-49	FS49	Total/NA	Solid	Total BTEX	
890-4469-50	FS50	Total/NA	Solid	Total BTEX	
890-4469-51	FS51	Total/NA	Solid	Total BTEX	
890-4469-52	FS52	Total/NA	Solid	Total BTEX	
890-4469-53	FS53	Total/NA	Solid	Total BTEX	
890-4469-54	FS54	Total/NA	Solid	Total BTEX	
890-4469-55	FS55	Total/NA	Solid	Total BTEX	
890-4469-56	FS56	Total/NA	Solid	Total BTEX	
890-4469-57	FS57	Total/NA	Solid	Total BTEX	
890-4469-58	SW01	Total/NA	Solid	Total BTEX	
890-4469-59	SW02	Total/NA	Solid	Total BTEX	
890-4469-60	SW03	Total/NA	Solid	Total BTEX	
890-4469-61	SW04	Total/NA	Solid	Total BTEX	
890-4469-62	SW05	Total/NA	Solid	Total BTEX	
890-4469-63	SW06	Total/NA	Solid	Total BTEX	
890-4469-64	PH01	Total/NA	Solid	Total BTEX	
890-4469-65	PH02	Total/NA	Solid	Total BTEX	
890-4469-66	PH03	Total/NA	Solid	Total BTEX	
890-4469-67	PH04	Total/NA	Solid	Total BTEX	
890-4469-68	PH05	Total/NA	Solid	Total BTEX	

Prep Batch: 50817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-64	PH01	Total/NA	Solid	5035	
890-4469-65	PH02	Total/NA	Solid	5035	
890-4469-66	PH03	Total/NA	Solid	5035	
890-4469-67	PH04	Total/NA	Solid	5035	
890-4469-68	PH05	Total/NA	Solid	5035	
MB 880-50817/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA (Continued)

Prep Batch: 50817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-50817/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50817/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26816-A-102-C MS	Matrix Spike	Total/NA	Solid	5035	
880-26816-A-102-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 50821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-3	FS03	Total/NA	Solid	5035	
890-4469-4	FS04	Total/NA	Solid	5035	
890-4469-5	FS05	Total/NA	Solid	5035	
890-4469-6	FS06	Total/NA	Solid	5035	
890-4469-7	FS07	Total/NA	Solid	5035	
890-4469-8	FS08	Total/NA	Solid	5035	
890-4469-9	FS09	Total/NA	Solid	5035	
890-4469-10	FS10	Total/NA	Solid	5035	
890-4469-11	FS11	Total/NA	Solid	5035	
890-4469-12	FS12	Total/NA	Solid	5035	
890-4469-13	FS13	Total/NA	Solid	5035	
890-4469-14	FS14	Total/NA	Solid	5035	
890-4469-15	FS15	Total/NA	Solid	5035	
890-4469-16	FS16	Total/NA	Solid	5035	
890-4469-17	FS17	Total/NA	Solid	5035	
890-4469-18	FS18	Total/NA	Solid	5035	
890-4469-19	FS19	Total/NA	Solid	5035	
890-4469-20	FS20	Total/NA	Solid	5035	
890-4469-21	FS21	Total/NA	Solid	5035	
890-4469-22	FS22	Total/NA	Solid	5035	
MB 880-50821/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50821/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50821/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4469-3 MS	FS03	Total/NA	Solid	5035	
890-4469-3 MSD	FS03	Total/NA	Solid	5035	

Prep Batch: 50823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-23	FS23	Total/NA	Solid	5035	
890-4469-24	FS24	Total/NA	Solid	5035	
890-4469-25	FS25	Total/NA	Solid	5035	
890-4469-26	FS26	Total/NA	Solid	5035	
890-4469-27	FS27	Total/NA	Solid	5035	
890-4469-28	FS28	Total/NA	Solid	5035	
890-4469-29	FS29	Total/NA	Solid	5035	
890-4469-30	FS30	Total/NA	Solid	5035	
890-4469-31	FS31	Total/NA	Solid	5035	
890-4469-32	FS32	Total/NA	Solid	5035	
890-4469-33	FS33	Total/NA	Solid	5035	
890-4469-34	FS34	Total/NA	Solid	5035	
890-4469-35	FS35	Total/NA	Solid	5035	
890-4469-36	FS36	Total/NA	Solid	5035	
890-4469-37	FS37	Total/NA	Solid	5035	
890-4469-38	FS38	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA (Continued)

Prep Batch: 50823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-39	FS39	Total/NA	Solid	5035	
890-4469-40	FS40	Total/NA	Solid	5035	
890-4469-41	FS41	Total/NA	Solid	5035	
890-4469-42	FS42	Total/NA	Solid	5035	
MB 880-50823/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50823/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50823/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4469-23 MS	FS23	Total/NA	Solid	5035	
890-4469-23 MSD	FS23	Total/NA	Solid	5035	

Prep Batch: 50826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-43	FS43	Total/NA	Solid	5035	
890-4469-44	FS44	Total/NA	Solid	5035	
890-4469-45	FS45	Total/NA	Solid	5035	
890-4469-46	FS46	Total/NA	Solid	5035	
890-4469-47	FS47	Total/NA	Solid	5035	
890-4469-48	FS48	Total/NA	Solid	5035	
890-4469-49	FS49	Total/NA	Solid	5035	
890-4469-50	FS50	Total/NA	Solid	5035	
890-4469-51	FS51	Total/NA	Solid	5035	
890-4469-52	FS52	Total/NA	Solid	5035	
890-4469-53	FS53	Total/NA	Solid	5035	
890-4469-54	FS54	Total/NA	Solid	5035	
890-4469-55	FS55	Total/NA	Solid	5035	
890-4469-56	FS56	Total/NA	Solid	5035	
890-4469-57	FS57	Total/NA	Solid	5035	
890-4469-58	SW01	Total/NA	Solid	5035	
890-4469-59	SW02	Total/NA	Solid	5035	
890-4469-60	SW03	Total/NA	Solid	5035	
890-4469-61	SW04	Total/NA	Solid	5035	
890-4469-62	SW05	Total/NA	Solid	5035	
MB 880-50826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4469-43 MS	FS43	Total/NA	Solid	5035	
890-4469-43 MSD	FS43	Total/NA	Solid	5035	

Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 50846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50846/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-64	PH01	Total/NA	Solid	8021B	50817
890-4469-65	PH02	Total/NA	Solid	8021B	50817
890-4469-66	PH03	Total/NA	Solid	8021B	50817

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA (Continued)

Analysis Batch: 50870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-67	PH04	Total/NA	Solid	8021B	50817
890-4469-68	PH05	Total/NA	Solid	8021B	50817
MB 880-50817/5-A	Method Blank	Total/NA	Solid	8021B	50817
MB 880-50846/5-A	Method Blank	Total/NA	Solid	8021B	50846
LCS 880-50817/1-A	Lab Control Sample	Total/NA	Solid	8021B	50817
LCSD 880-50817/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50817
880-26816-A-102-C MS	Matrix Spike	Total/NA	Solid	8021B	50817
880-26816-A-102-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50817

Analysis Batch: 50943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-23	FS23	Total/NA	Solid	8021B	50823
890-4469-24	FS24	Total/NA	Solid	8021B	50823
890-4469-25	FS25	Total/NA	Solid	8021B	50823
890-4469-26	FS26	Total/NA	Solid	8021B	50823
890-4469-27	FS27	Total/NA	Solid	8021B	50823
890-4469-28	FS28	Total/NA	Solid	8021B	50823
890-4469-29	FS29	Total/NA	Solid	8021B	50823
890-4469-30	FS30	Total/NA	Solid	8021B	50823
890-4469-31	FS31	Total/NA	Solid	8021B	50823
890-4469-32	FS32	Total/NA	Solid	8021B	50823
890-4469-33	FS33	Total/NA	Solid	8021B	50823
890-4469-34	FS34	Total/NA	Solid	8021B	50823
890-4469-35	FS35	Total/NA	Solid	8021B	50823
890-4469-36	FS36	Total/NA	Solid	8021B	50823
890-4469-37	FS37	Total/NA	Solid	8021B	50823
890-4469-38	FS38	Total/NA	Solid	8021B	50823
890-4469-39	FS39	Total/NA	Solid	8021B	50823
890-4469-40	FS40	Total/NA	Solid	8021B	50823
890-4469-41	FS41	Total/NA	Solid	8021B	50823
890-4469-42	FS42	Total/NA	Solid	8021B	50823
890-4469-43	FS43	Total/NA	Solid	8021B	50826
890-4469-44	FS44	Total/NA	Solid	8021B	50826
890-4469-45	FS45	Total/NA	Solid	8021B	50826
890-4469-46	FS46	Total/NA	Solid	8021B	50826
890-4469-47	FS47	Total/NA	Solid	8021B	50826
890-4469-48	FS48	Total/NA	Solid	8021B	50826
890-4469-49	FS49	Total/NA	Solid	8021B	50826
890-4469-50	FS50	Total/NA	Solid	8021B	50826
890-4469-51	FS51	Total/NA	Solid	8021B	50826
890-4469-52	FS52	Total/NA	Solid	8021B	50826
890-4469-53	FS53	Total/NA	Solid	8021B	50826
890-4469-54	FS54	Total/NA	Solid	8021B	50826
890-4469-55	FS55	Total/NA	Solid	8021B	50826
890-4469-56	FS56	Total/NA	Solid	8021B	50826
890-4469-57	FS57	Total/NA	Solid	8021B	50826
890-4469-58	SW01	Total/NA	Solid	8021B	50826
890-4469-59	SW02	Total/NA	Solid	8021B	50826
890-4469-60	SW03	Total/NA	Solid	8021B	50826
890-4469-61	SW04	Total/NA	Solid	8021B	50826
890-4469-62	SW05	Total/NA	Solid	8021B	50826

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA (Continued)

Analysis Batch: 50943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50823/5-A	Method Blank	Total/NA	Solid	8021B	50823
MB 880-50826/5-A	Method Blank	Total/NA	Solid	8021B	50826
LCS 880-50823/1-A	Lab Control Sample	Total/NA	Solid	8021B	50823
LCS 880-50826/1-A	Lab Control Sample	Total/NA	Solid	8021B	50826
LCSD 880-50823/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50823
LCSD 880-50826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50826
890-4469-23 MS	FS23	Total/NA	Solid	8021B	50823
890-4469-23 MSD	FS23	Total/NA	Solid	8021B	50823
890-4469-43 MS	FS43	Total/NA	Solid	8021B	50826
890-4469-43 MSD	FS43	Total/NA	Solid	8021B	50826

Analysis Batch: 50944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-3	FS03	Total/NA	Solid	8021B	50821
890-4469-4	FS04	Total/NA	Solid	8021B	50821
890-4469-5	FS05	Total/NA	Solid	8021B	50821
890-4469-6	FS06	Total/NA	Solid	8021B	50821
890-4469-7	FS07	Total/NA	Solid	8021B	50821
890-4469-8	FS08	Total/NA	Solid	8021B	50821
890-4469-9	FS09	Total/NA	Solid	8021B	50821
890-4469-10	FS10	Total/NA	Solid	8021B	50821
890-4469-11	FS11	Total/NA	Solid	8021B	50821
890-4469-12	FS12	Total/NA	Solid	8021B	50821
890-4469-13	FS13	Total/NA	Solid	8021B	50821
890-4469-14	FS14	Total/NA	Solid	8021B	50821
890-4469-15	FS15	Total/NA	Solid	8021B	50821
890-4469-16	FS16	Total/NA	Solid	8021B	50821
890-4469-17	FS17	Total/NA	Solid	8021B	50821
890-4469-18	FS18	Total/NA	Solid	8021B	50821
890-4469-19	FS19	Total/NA	Solid	8021B	50821
890-4469-20	FS20	Total/NA	Solid	8021B	50821
890-4469-21	FS21	Total/NA	Solid	8021B	50821
890-4469-22	FS22	Total/NA	Solid	8021B	50821
MB 880-50821/5-A	Method Blank	Total/NA	Solid	8021B	50821
LCS 880-50821/1-A	Lab Control Sample	Total/NA	Solid	8021B	50821
LCSD 880-50821/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50821
890-4469-3 MS	FS03	Total/NA	Solid	8021B	50821
890-4469-3 MSD	FS03	Total/NA	Solid	8021B	50821

Analysis Batch: 50945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-63	SW06	Total/NA	Solid	8021B	50990
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
MB 880-50990/5-A	Method Blank	Total/NA	Solid	8021B	50990
LCS 880-50990/1-A	Lab Control Sample	Total/NA	Solid	8021B	50990
LCSD 880-50990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50990
880-27093-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	50990
880-27093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50990

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC VOA

Prep Batch: 50990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-63	SW06	Total/NA	Solid	5035	
MB 880-50990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27093-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 50624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-61	SW04	Total/NA	Solid	8015NM Prep	
890-4469-62	SW05	Total/NA	Solid	8015NM Prep	
890-4469-63	SW06	Total/NA	Solid	8015NM Prep	
890-4469-64	PH01	Total/NA	Solid	8015NM Prep	
890-4469-65	PH02	Total/NA	Solid	8015NM Prep	
890-4469-66	PH03	Total/NA	Solid	8015NM Prep	
890-4469-67	PH04	Total/NA	Solid	8015NM Prep	
890-4469-68	PH05	Total/NA	Solid	8015NM Prep	
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4472-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4472-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 50629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	8015NM Prep	
890-4469-2	FS02	Total/NA	Solid	8015NM Prep	
890-4469-3	FS03	Total/NA	Solid	8015NM Prep	
890-4469-4	FS04	Total/NA	Solid	8015NM Prep	
890-4469-5	FS05	Total/NA	Solid	8015NM Prep	
890-4469-6	FS06	Total/NA	Solid	8015NM Prep	
890-4469-7	FS07	Total/NA	Solid	8015NM Prep	
890-4469-8	FS08	Total/NA	Solid	8015NM Prep	
890-4469-9	FS09	Total/NA	Solid	8015NM Prep	
890-4469-10	FS10	Total/NA	Solid	8015NM Prep	
890-4469-11	FS11	Total/NA	Solid	8015NM Prep	
890-4469-12	FS12	Total/NA	Solid	8015NM Prep	
890-4469-13	FS13	Total/NA	Solid	8015NM Prep	
890-4469-14	FS14	Total/NA	Solid	8015NM Prep	
890-4469-15	FS15	Total/NA	Solid	8015NM Prep	
890-4469-16	FS16	Total/NA	Solid	8015NM Prep	
890-4469-18	FS18	Total/NA	Solid	8015NM Prep	
890-4469-19	FS19	Total/NA	Solid	8015NM Prep	
890-4469-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-50629/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50629/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4469-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4469-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC Semi VOA

Prep Batch: 50630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-22	FS22	Total/NA	Solid	8015NM Prep	
890-4469-23	FS23	Total/NA	Solid	8015NM Prep	
890-4469-24	FS24	Total/NA	Solid	8015NM Prep	
890-4469-25	FS25	Total/NA	Solid	8015NM Prep	
890-4469-26	FS26	Total/NA	Solid	8015NM Prep	
890-4469-27	FS27	Total/NA	Solid	8015NM Prep	
890-4469-28	FS28	Total/NA	Solid	8015NM Prep	
890-4469-29	FS29	Total/NA	Solid	8015NM Prep	
890-4469-30	FS30	Total/NA	Solid	8015NM Prep	
890-4469-31	FS31	Total/NA	Solid	8015NM Prep	
890-4469-32	FS32	Total/NA	Solid	8015NM Prep	
890-4469-33	FS33	Total/NA	Solid	8015NM Prep	
890-4469-34	FS34	Total/NA	Solid	8015NM Prep	
890-4469-35	FS35	Total/NA	Solid	8015NM Prep	
890-4469-36	FS36	Total/NA	Solid	8015NM Prep	
890-4469-38	FS38	Total/NA	Solid	8015NM Prep	
890-4469-39	FS39	Total/NA	Solid	8015NM Prep	
890-4469-40	FS40	Total/NA	Solid	8015NM Prep	
MB 880-50630/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50630/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4469-A-21-B MS	890-4469-A-21-B MS	Total/NA	Solid	8015NM Prep	
890-4469-A-21-C MSD	890-4469-A-21-C MSD	Total/NA	Solid	8015NM Prep	

Prep Batch: 50631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-41	FS41	Total/NA	Solid	8015NM Prep	
890-4469-42	FS42	Total/NA	Solid	8015NM Prep	
890-4469-43	FS43	Total/NA	Solid	8015NM Prep	
890-4469-44	FS44	Total/NA	Solid	8015NM Prep	
890-4469-45	FS45	Total/NA	Solid	8015NM Prep	
890-4469-46	FS46	Total/NA	Solid	8015NM Prep	
890-4469-47	FS47	Total/NA	Solid	8015NM Prep	
890-4469-48	FS48	Total/NA	Solid	8015NM Prep	
890-4469-49	FS49	Total/NA	Solid	8015NM Prep	
890-4469-50	FS50	Total/NA	Solid	8015NM Prep	
890-4469-51	FS51	Total/NA	Solid	8015NM Prep	
890-4469-52	FS52	Total/NA	Solid	8015NM Prep	
890-4469-53	FS53	Total/NA	Solid	8015NM Prep	
890-4469-54	FS54	Total/NA	Solid	8015NM Prep	
890-4469-55	FS55	Total/NA	Solid	8015NM Prep	
890-4469-56	FS56	Total/NA	Solid	8015NM Prep	
890-4469-57	FS57	Total/NA	Solid	8015NM Prep	
890-4469-58	SW01	Total/NA	Solid	8015NM Prep	
890-4469-59	SW02	Total/NA	Solid	8015NM Prep	
890-4469-60	SW03	Total/NA	Solid	8015NM Prep	
MB 880-50631/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50631/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50631/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4469-41 MS	FS41	Total/NA	Solid	8015NM Prep	
890-4469-41 MSD	FS41	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC Semi VOA

Analysis Batch: 50772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	8015B NM	50629
890-4469-2	FS02	Total/NA	Solid	8015B NM	50629
890-4469-3	FS03	Total/NA	Solid	8015B NM	50629
890-4469-4	FS04	Total/NA	Solid	8015B NM	50629
890-4469-5	FS05	Total/NA	Solid	8015B NM	50629
890-4469-6	FS06	Total/NA	Solid	8015B NM	50629
890-4469-7	FS07	Total/NA	Solid	8015B NM	50629
890-4469-8	FS08	Total/NA	Solid	8015B NM	50629
890-4469-9	FS09	Total/NA	Solid	8015B NM	50629
890-4469-10	FS10	Total/NA	Solid	8015B NM	50629
890-4469-11	FS11	Total/NA	Solid	8015B NM	50629
890-4469-12	FS12	Total/NA	Solid	8015B NM	50629
890-4469-13	FS13	Total/NA	Solid	8015B NM	50629
890-4469-14	FS14	Total/NA	Solid	8015B NM	50629
890-4469-15	FS15	Total/NA	Solid	8015B NM	50629
890-4469-16	FS16	Total/NA	Solid	8015B NM	50629
890-4469-18	FS18	Total/NA	Solid	8015B NM	50629
890-4469-19	FS19	Total/NA	Solid	8015B NM	50629
890-4469-20	FS20	Total/NA	Solid	8015B NM	50629
MB 880-50629/1-A	Method Blank	Total/NA	Solid	8015B NM	50629
LCS 880-50629/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50629
LCSD 880-50629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50629
890-4469-1 MS	FS01	Total/NA	Solid	8015B NM	50629
890-4469-1 MSD	FS01	Total/NA	Solid	8015B NM	50629

Analysis Batch: 50774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-22	FS22	Total/NA	Solid	8015B NM	50630
890-4469-23	FS23	Total/NA	Solid	8015B NM	50630
890-4469-24	FS24	Total/NA	Solid	8015B NM	50630
890-4469-25	FS25	Total/NA	Solid	8015B NM	50630
890-4469-26	FS26	Total/NA	Solid	8015B NM	50630
890-4469-27	FS27	Total/NA	Solid	8015B NM	50630
890-4469-28	FS28	Total/NA	Solid	8015B NM	50630
890-4469-29	FS29	Total/NA	Solid	8015B NM	50630
890-4469-30	FS30	Total/NA	Solid	8015B NM	50630
890-4469-31	FS31	Total/NA	Solid	8015B NM	50630
890-4469-32	FS32	Total/NA	Solid	8015B NM	50630
890-4469-33	FS33	Total/NA	Solid	8015B NM	50630
890-4469-34	FS34	Total/NA	Solid	8015B NM	50630
890-4469-35	FS35	Total/NA	Solid	8015B NM	50630
890-4469-36	FS36	Total/NA	Solid	8015B NM	50630
890-4469-38	FS38	Total/NA	Solid	8015B NM	50630
890-4469-39	FS39	Total/NA	Solid	8015B NM	50630
890-4469-40	FS40	Total/NA	Solid	8015B NM	50630
MB 880-50630/1-A	Method Blank	Total/NA	Solid	8015B NM	50630
LCS 880-50630/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50630
LCSD 880-50630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50630
890-4469-A-21-B MS	890-4469-A-21-B MS	Total/NA	Solid	8015B NM	50630
890-4469-A-21-C MSD	890-4469-A-21-C MSD	Total/NA	Solid	8015B NM	50630

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC Semi VOA

Analysis Batch: 50777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-41	FS41	Total/NA	Solid	8015B NM	50631
890-4469-42	FS42	Total/NA	Solid	8015B NM	50631
890-4469-43	FS43	Total/NA	Solid	8015B NM	50631
890-4469-44	FS44	Total/NA	Solid	8015B NM	50631
890-4469-45	FS45	Total/NA	Solid	8015B NM	50631
890-4469-46	FS46	Total/NA	Solid	8015B NM	50631
890-4469-47	FS47	Total/NA	Solid	8015B NM	50631
890-4469-48	FS48	Total/NA	Solid	8015B NM	50631
890-4469-49	FS49	Total/NA	Solid	8015B NM	50631
890-4469-50	FS50	Total/NA	Solid	8015B NM	50631
890-4469-51	FS51	Total/NA	Solid	8015B NM	50631
890-4469-52	FS52	Total/NA	Solid	8015B NM	50631
890-4469-53	FS53	Total/NA	Solid	8015B NM	50631
890-4469-54	FS54	Total/NA	Solid	8015B NM	50631
890-4469-55	FS55	Total/NA	Solid	8015B NM	50631
890-4469-56	FS56	Total/NA	Solid	8015B NM	50631
890-4469-57	FS57	Total/NA	Solid	8015B NM	50631
890-4469-58	SW01	Total/NA	Solid	8015B NM	50631
890-4469-59	SW02	Total/NA	Solid	8015B NM	50631
890-4469-60	SW03	Total/NA	Solid	8015B NM	50631
MB 880-50631/1-A	Method Blank	Total/NA	Solid	8015B NM	50631
LCS 880-50631/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50631
LCSD 880-50631/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50631
890-4469-41 MS	FS41	Total/NA	Solid	8015B NM	50631
890-4469-41 MSD	FS41	Total/NA	Solid	8015B NM	50631

Analysis Batch: 50779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-61	SW04	Total/NA	Solid	8015B NM	50624
890-4469-62	SW05	Total/NA	Solid	8015B NM	50624
890-4469-63	SW06	Total/NA	Solid	8015B NM	50624
890-4469-64	PH01	Total/NA	Solid	8015B NM	50624
890-4469-65	PH02	Total/NA	Solid	8015B NM	50624
890-4469-66	PH03	Total/NA	Solid	8015B NM	50624
890-4469-67	PH04	Total/NA	Solid	8015B NM	50624
890-4469-68	PH05	Total/NA	Solid	8015B NM	50624
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015B NM	50624
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50624
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50624
890-4472-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50624
890-4472-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50624

Analysis Batch: 50875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Total/NA	Solid	8015 NM	
890-4469-2	FS02	Total/NA	Solid	8015 NM	
890-4469-3	FS03	Total/NA	Solid	8015 NM	
890-4469-4	FS04	Total/NA	Solid	8015 NM	
890-4469-5	FS05	Total/NA	Solid	8015 NM	
890-4469-6	FS06	Total/NA	Solid	8015 NM	
890-4469-7	FS07	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC Semi VOA (Continued)

Analysis Batch: 50875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-8	FS08	Total/NA	Solid	8015 NM	
890-4469-9	FS09	Total/NA	Solid	8015 NM	
890-4469-10	FS10	Total/NA	Solid	8015 NM	
890-4469-11	FS11	Total/NA	Solid	8015 NM	
890-4469-12	FS12	Total/NA	Solid	8015 NM	
890-4469-13	FS13	Total/NA	Solid	8015 NM	
890-4469-14	FS14	Total/NA	Solid	8015 NM	
890-4469-15	FS15	Total/NA	Solid	8015 NM	
890-4469-16	FS16	Total/NA	Solid	8015 NM	
890-4469-17	FS17	Total/NA	Solid	8015 NM	
890-4469-18	FS18	Total/NA	Solid	8015 NM	
890-4469-19	FS19	Total/NA	Solid	8015 NM	
890-4469-20	FS20	Total/NA	Solid	8015 NM	
890-4469-21	FS21	Total/NA	Solid	8015 NM	
890-4469-22	FS22	Total/NA	Solid	8015 NM	
890-4469-23	FS23	Total/NA	Solid	8015 NM	
890-4469-24	FS24	Total/NA	Solid	8015 NM	
890-4469-25	FS25	Total/NA	Solid	8015 NM	
890-4469-26	FS26	Total/NA	Solid	8015 NM	
890-4469-27	FS27	Total/NA	Solid	8015 NM	
890-4469-28	FS28	Total/NA	Solid	8015 NM	
890-4469-29	FS29	Total/NA	Solid	8015 NM	
890-4469-30	FS30	Total/NA	Solid	8015 NM	
890-4469-31	FS31	Total/NA	Solid	8015 NM	
890-4469-32	FS32	Total/NA	Solid	8015 NM	
890-4469-33	FS33	Total/NA	Solid	8015 NM	
890-4469-34	FS34	Total/NA	Solid	8015 NM	
890-4469-35	FS35	Total/NA	Solid	8015 NM	
890-4469-36	FS36	Total/NA	Solid	8015 NM	
890-4469-37	FS37	Total/NA	Solid	8015 NM	
890-4469-38	FS38	Total/NA	Solid	8015 NM	
890-4469-39	FS39	Total/NA	Solid	8015 NM	
890-4469-40	FS40	Total/NA	Solid	8015 NM	
890-4469-41	FS41	Total/NA	Solid	8015 NM	
890-4469-42	FS42	Total/NA	Solid	8015 NM	
890-4469-43	FS43	Total/NA	Solid	8015 NM	
890-4469-44	FS44	Total/NA	Solid	8015 NM	
890-4469-45	FS45	Total/NA	Solid	8015 NM	
890-4469-46	FS46	Total/NA	Solid	8015 NM	
890-4469-47	FS47	Total/NA	Solid	8015 NM	
890-4469-48	FS48	Total/NA	Solid	8015 NM	
890-4469-49	FS49	Total/NA	Solid	8015 NM	
890-4469-50	FS50	Total/NA	Solid	8015 NM	
890-4469-51	FS51	Total/NA	Solid	8015 NM	
890-4469-52	FS52	Total/NA	Solid	8015 NM	
890-4469-53	FS53	Total/NA	Solid	8015 NM	
890-4469-54	FS54	Total/NA	Solid	8015 NM	
890-4469-55	FS55	Total/NA	Solid	8015 NM	
890-4469-56	FS56	Total/NA	Solid	8015 NM	
890-4469-57	FS57	Total/NA	Solid	8015 NM	
890-4469-58	SW01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

GC Semi VOA (Continued)

Analysis Batch: 50875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-59	SW02	Total/NA	Solid	8015 NM	
890-4469-60	SW03	Total/NA	Solid	8015 NM	
890-4469-61	SW04	Total/NA	Solid	8015 NM	
890-4469-62	SW05	Total/NA	Solid	8015 NM	
890-4469-63	SW06	Total/NA	Solid	8015 NM	
890-4469-64	PH01	Total/NA	Solid	8015 NM	
890-4469-65	PH02	Total/NA	Solid	8015 NM	
890-4469-66	PH03	Total/NA	Solid	8015 NM	
890-4469-67	PH04	Total/NA	Solid	8015 NM	
890-4469-68	PH05	Total/NA	Solid	8015 NM	

Prep Batch: 51210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-17	FS17	Total/NA	Solid	8015NM Prep	
890-4469-21	FS21	Total/NA	Solid	8015NM Prep	
890-4469-37	FS37	Total/NA	Solid	8015NM Prep	
MB 880-51210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4507-A-10-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4507-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-17	FS17	Total/NA	Solid	8015B NM	51210
890-4469-21	FS21	Total/NA	Solid	8015B NM	51210
890-4469-37	FS37	Total/NA	Solid	8015B NM	51210
MB 880-51210/1-A	Method Blank	Total/NA	Solid	8015B NM	51210
LCS 880-51210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51210
LCSD 880-51210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51210
890-4507-A-10-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51210
890-4507-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51210

HPLC/IC

Leach Batch: 50691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Soluble	Solid	DI Leach	
890-4469-2	FS02	Soluble	Solid	DI Leach	
890-4469-3	FS03	Soluble	Solid	DI Leach	
890-4469-4	FS04	Soluble	Solid	DI Leach	
890-4469-5	FS05	Soluble	Solid	DI Leach	
890-4469-6	FS06	Soluble	Solid	DI Leach	
890-4469-7	FS07	Soluble	Solid	DI Leach	
890-4469-8	FS08	Soluble	Solid	DI Leach	
890-4469-9	FS09	Soluble	Solid	DI Leach	
890-4469-10	FS10	Soluble	Solid	DI Leach	
890-4469-11	FS11	Soluble	Solid	DI Leach	
890-4469-12	FS12	Soluble	Solid	DI Leach	
890-4469-13	FS13	Soluble	Solid	DI Leach	
890-4469-14	FS14	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

HPLC/IC (Continued)

Leach Batch: 50691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-15	FS15	Soluble	Solid	DI Leach	
890-4469-16	FS16	Soluble	Solid	DI Leach	
890-4469-17	FS17	Soluble	Solid	DI Leach	
890-4469-18	FS18	Soluble	Solid	DI Leach	
890-4469-19	FS19	Soluble	Solid	DI Leach	
890-4469-20	FS20	Soluble	Solid	DI Leach	
MB 880-50691/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50691/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50691/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4469-1 MS	FS01	Soluble	Solid	DI Leach	
890-4469-1 MSD	FS01	Soluble	Solid	DI Leach	
890-4469-11 MS	FS11	Soluble	Solid	DI Leach	
890-4469-11 MSD	FS11	Soluble	Solid	DI Leach	

Leach Batch: 50692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-21	FS21	Soluble	Solid	DI Leach	
890-4469-22	FS22	Soluble	Solid	DI Leach	
890-4469-23	FS23	Soluble	Solid	DI Leach	
890-4469-24	FS24	Soluble	Solid	DI Leach	
890-4469-25	FS25	Soluble	Solid	DI Leach	
890-4469-26	FS26	Soluble	Solid	DI Leach	
890-4469-27	FS27	Soluble	Solid	DI Leach	
890-4469-28	FS28	Soluble	Solid	DI Leach	
890-4469-29	FS29	Soluble	Solid	DI Leach	
890-4469-30	FS30	Soluble	Solid	DI Leach	
890-4469-31	FS31	Soluble	Solid	DI Leach	
890-4469-32	FS32	Soluble	Solid	DI Leach	
890-4469-33	FS33	Soluble	Solid	DI Leach	
890-4469-34	FS34	Soluble	Solid	DI Leach	
890-4469-35	FS35	Soluble	Solid	DI Leach	
890-4469-36	FS36	Soluble	Solid	DI Leach	
890-4469-37	FS37	Soluble	Solid	DI Leach	
890-4469-38	FS38	Soluble	Solid	DI Leach	
890-4469-39	FS39	Soluble	Solid	DI Leach	
890-4469-40	FS40	Soluble	Solid	DI Leach	
MB 880-50692/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50692/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50692/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4469-21 MS	FS21	Soluble	Solid	DI Leach	
890-4469-21 MSD	FS21	Soluble	Solid	DI Leach	
890-4469-31 MS	FS31	Soluble	Solid	DI Leach	
890-4469-31 MSD	FS31	Soluble	Solid	DI Leach	

Leach Batch: 50693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-41	FS41	Soluble	Solid	DI Leach	
890-4469-42	FS42	Soluble	Solid	DI Leach	
890-4469-43	FS43	Soluble	Solid	DI Leach	
890-4469-44	FS44	Soluble	Solid	DI Leach	
890-4469-45	FS45	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

HPLC/IC (Continued)

Leach Batch: 50693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-46	FS46	Soluble	Solid	DI Leach	
890-4469-47	FS47	Soluble	Solid	DI Leach	
890-4469-48	FS48	Soluble	Solid	DI Leach	
890-4469-49	FS49	Soluble	Solid	DI Leach	
890-4469-50	FS50	Soluble	Solid	DI Leach	
890-4469-51	FS51	Soluble	Solid	DI Leach	
890-4469-52	FS52	Soluble	Solid	DI Leach	
890-4469-53	FS53	Soluble	Solid	DI Leach	
890-4469-54	FS54	Soluble	Solid	DI Leach	
890-4469-55	FS55	Soluble	Solid	DI Leach	
890-4469-56	FS56	Soluble	Solid	DI Leach	
890-4469-57	FS57	Soluble	Solid	DI Leach	
890-4469-58	SW01	Soluble	Solid	DI Leach	
890-4469-59	SW02	Soluble	Solid	DI Leach	
890-4469-60	SW03	Soluble	Solid	DI Leach	
MB 880-50693/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50693/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50693/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4469-41 MS	FS41	Soluble	Solid	DI Leach	
890-4469-41 MSD	FS41	Soluble	Solid	DI Leach	
890-4469-51 MS	FS51	Soluble	Solid	DI Leach	
890-4469-51 MSD	FS51	Soluble	Solid	DI Leach	

Leach Batch: 50694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-61	SW04	Soluble	Solid	DI Leach	
890-4469-62	SW05	Soluble	Solid	DI Leach	
890-4469-63	SW06	Soluble	Solid	DI Leach	
890-4469-64	PH01	Soluble	Solid	DI Leach	
890-4469-65	PH02	Soluble	Solid	DI Leach	
890-4469-66	PH03	Soluble	Solid	DI Leach	
890-4469-67	PH04	Soluble	Solid	DI Leach	
890-4469-68	PH05	Soluble	Solid	DI Leach	
MB 880-50694/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50694/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50694/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26740-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26740-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-61	SW04	Soluble	Solid	300.0	50694
890-4469-62	SW05	Soluble	Solid	300.0	50694
890-4469-63	SW06	Soluble	Solid	300.0	50694
890-4469-64	PH01	Soluble	Solid	300.0	50694
890-4469-65	PH02	Soluble	Solid	300.0	50694
890-4469-66	PH03	Soluble	Solid	300.0	50694
890-4469-67	PH04	Soluble	Solid	300.0	50694
890-4469-68	PH05	Soluble	Solid	300.0	50694
MB 880-50694/1-A	Method Blank	Soluble	Solid	300.0	50694
LCS 880-50694/2-A	Lab Control Sample	Soluble	Solid	300.0	50694

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

HPLC/IC (Continued)

Analysis Batch: 50889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50694/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50694
880-26740-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	50694
880-26740-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50694

Analysis Batch: 50890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-21	FS21	Soluble	Solid	300.0	50692
890-4469-22	FS22	Soluble	Solid	300.0	50692
890-4469-23	FS23	Soluble	Solid	300.0	50692
890-4469-24	FS24	Soluble	Solid	300.0	50692
890-4469-25	FS25	Soluble	Solid	300.0	50692
890-4469-26	FS26	Soluble	Solid	300.0	50692
890-4469-27	FS27	Soluble	Solid	300.0	50692
890-4469-28	FS28	Soluble	Solid	300.0	50692
890-4469-29	FS29	Soluble	Solid	300.0	50692
890-4469-30	FS30	Soluble	Solid	300.0	50692
890-4469-31	FS31	Soluble	Solid	300.0	50692
890-4469-32	FS32	Soluble	Solid	300.0	50692
890-4469-33	FS33	Soluble	Solid	300.0	50692
890-4469-34	FS34	Soluble	Solid	300.0	50692
890-4469-35	FS35	Soluble	Solid	300.0	50692
890-4469-36	FS36	Soluble	Solid	300.0	50692
890-4469-37	FS37	Soluble	Solid	300.0	50692
890-4469-38	FS38	Soluble	Solid	300.0	50692
890-4469-39	FS39	Soluble	Solid	300.0	50692
890-4469-40	FS40	Soluble	Solid	300.0	50692
MB 880-50692/1-A	Method Blank	Soluble	Solid	300.0	50692
LCS 880-50692/2-A	Lab Control Sample	Soluble	Solid	300.0	50692
LCSD 880-50692/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50692
890-4469-21 MS	FS21	Soluble	Solid	300.0	50692
890-4469-21 MSD	FS21	Soluble	Solid	300.0	50692
890-4469-31 MS	FS31	Soluble	Solid	300.0	50692
890-4469-31 MSD	FS31	Soluble	Solid	300.0	50692

Analysis Batch: 50895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-41	FS41	Soluble	Solid	300.0	50693
890-4469-42	FS42	Soluble	Solid	300.0	50693
890-4469-43	FS43	Soluble	Solid	300.0	50693
890-4469-44	FS44	Soluble	Solid	300.0	50693
890-4469-45	FS45	Soluble	Solid	300.0	50693
890-4469-46	FS46	Soluble	Solid	300.0	50693
890-4469-47	FS47	Soluble	Solid	300.0	50693
890-4469-48	FS48	Soluble	Solid	300.0	50693
890-4469-49	FS49	Soluble	Solid	300.0	50693
890-4469-50	FS50	Soluble	Solid	300.0	50693
890-4469-51	FS51	Soluble	Solid	300.0	50693
890-4469-52	FS52	Soluble	Solid	300.0	50693
890-4469-53	FS53	Soluble	Solid	300.0	50693
890-4469-54	FS54	Soluble	Solid	300.0	50693
890-4469-55	FS55	Soluble	Solid	300.0	50693

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

HPLC/IC (Continued)

Analysis Batch: 50895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-56	FS56	Soluble	Solid	300.0	50693
890-4469-57	FS57	Soluble	Solid	300.0	50693
890-4469-58	SW01	Soluble	Solid	300.0	50693
890-4469-59	SW02	Soluble	Solid	300.0	50693
890-4469-60	SW03	Soluble	Solid	300.0	50693
MB 880-50693/1-A	Method Blank	Soluble	Solid	300.0	50693
LCS 880-50693/2-A	Lab Control Sample	Soluble	Solid	300.0	50693
LCSD 880-50693/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50693
890-4469-41 MS	FS41	Soluble	Solid	300.0	50693
890-4469-41 MSD	FS41	Soluble	Solid	300.0	50693
890-4469-51 MS	FS51	Soluble	Solid	300.0	50693
890-4469-51 MSD	FS51	Soluble	Solid	300.0	50693

Analysis Batch: 50898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4469-1	FS01	Soluble	Solid	300.0	50691
890-4469-2	FS02	Soluble	Solid	300.0	50691
890-4469-3	FS03	Soluble	Solid	300.0	50691
890-4469-4	FS04	Soluble	Solid	300.0	50691
890-4469-5	FS05	Soluble	Solid	300.0	50691
890-4469-6	FS06	Soluble	Solid	300.0	50691
890-4469-7	FS07	Soluble	Solid	300.0	50691
890-4469-8	FS08	Soluble	Solid	300.0	50691
890-4469-9	FS09	Soluble	Solid	300.0	50691
890-4469-10	FS10	Soluble	Solid	300.0	50691
890-4469-11	FS11	Soluble	Solid	300.0	50691
890-4469-12	FS12	Soluble	Solid	300.0	50691
890-4469-13	FS13	Soluble	Solid	300.0	50691
890-4469-14	FS14	Soluble	Solid	300.0	50691
890-4469-15	FS15	Soluble	Solid	300.0	50691
890-4469-16	FS16	Soluble	Solid	300.0	50691
890-4469-17	FS17	Soluble	Solid	300.0	50691
890-4469-18	FS18	Soluble	Solid	300.0	50691
890-4469-19	FS19	Soluble	Solid	300.0	50691
890-4469-20	FS20	Soluble	Solid	300.0	50691
MB 880-50691/1-A	Method Blank	Soluble	Solid	300.0	50691
LCS 880-50691/2-A	Lab Control Sample	Soluble	Solid	300.0	50691
LCSD 880-50691/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50691
890-4469-1 MS	FS01	Soluble	Solid	300.0	50691
890-4469-1 MSD	FS01	Soluble	Solid	300.0	50691
890-4469-11 MS	FS11	Soluble	Solid	300.0	50691
890-4469-11 MSD	FS11	Soluble	Solid	300.0	50691

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS01
Date Collected: 03/30/23 15:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-1
Matrix: Solid

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	50528	04/06/23 15:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50706	04/09/23 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/10/23 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 11:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 09:29	SMC	EET MID

Client Sample ID: FS02
Date Collected: 03/30/23 15:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-2
Matrix: Solid

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	50528	04/06/23 15:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50706	04/09/23 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/10/23 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 12:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 09:43	SMC	EET MID

Client Sample ID: FS03
Date Collected: 03/31/23 10:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 12:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 09:48	SMC	EET MID

Client Sample ID: FS04
Date Collected: 03/31/23 11:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-4
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS04
Date Collected: 03/31/23 11:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-4
Matrix: Solid

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			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 09:53	SMC	EET MID

Client Sample ID: FS05
Date Collected: 03/31/23 11:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-5
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 09:58	SMC	EET MID

Client Sample ID: FS06
Date Collected: 03/31/23 11:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-6
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 14:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:12	SMC	EET MID

Client Sample ID: FS07
Date Collected: 03/31/23 11:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-7
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 14:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS07
Date Collected: 03/31/23 11:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:17	SMC	EET MID

Client Sample ID: FS08
Date Collected: 03/31/23 12:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-8
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 14:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:22	SMC	EET MID

Client Sample ID: FS09
Date Collected: 03/31/23 12:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-9
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:27	SMC	EET MID

Client Sample ID: FS10
Date Collected: 03/31/23 12:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-10
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 15:28	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:32	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS11
Date Collected: 03/31/23 12:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-11
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 16:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:37	SMC	EET MID

Client Sample ID: FS12
Date Collected: 03/31/23 13:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-12
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 16:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:51	SMC	EET MID

Client Sample ID: FS13
Date Collected: 03/31/23 14:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-13
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 16:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 10:56	SMC	EET MID

Client Sample ID: FS14
Date Collected: 03/31/23 14:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS14
Date Collected: 03/31/23 14:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-14
Matrix: Solid

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			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 17:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:10	SMC	EET MID

Client Sample ID: FS15
Date Collected: 03/31/23 14:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-15
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:15	SMC	EET MID

Client Sample ID: FS16
Date Collected: 03/31/23 14:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-16
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/10/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:20	SMC	EET MID

Client Sample ID: FS17
Date Collected: 03/31/23 15:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-17
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51210	04/14/23 14:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/16/23 04:18	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS17
Date Collected: 03/31/23 15:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:25	SMC	EET MID

Client Sample ID: FS18
Date Collected: 03/31/23 15:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/11/23 07:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:30	SMC	EET MID

Client Sample ID: FS19
Date Collected: 04/03/23 09:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-19
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/11/23 07:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:35	SMC	EET MID

Client Sample ID: FS20
Date Collected: 04/03/23 09:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-20
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50629	04/07/23 16:04	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50772	04/11/23 07:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50691	04/08/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50898	04/10/23 11:39	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS21
Date Collected: 04/03/23 09:50
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-21
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51210	04/14/23 14:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/16/23 04:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 09:47	SMC	EET MID

Client Sample ID: FS22
Date Collected: 04/03/23 10:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-22
Matrix: Solid

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	50821	04/10/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50944	04/12/23 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 12:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:01	SMC	EET MID

Client Sample ID: FS23
Date Collected: 04/03/23 10:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-23
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 11:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 12:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:06	SMC	EET MID

Client Sample ID: FS24
Date Collected: 04/03/23 10:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-24
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS24
Date Collected: 04/03/23 10:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-24
Matrix: Solid

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			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:10	SMC	EET MID

Client Sample ID: FS25
Date Collected: 04/03/23 13:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-25
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:15	SMC	EET MID

Client Sample ID: FS26
Date Collected: 04/03/23 13:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-26
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 14:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:28	SMC	EET MID

Client Sample ID: FS27
Date Collected: 04/03/23 13:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 14:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS27
Date Collected: 04/03/23 13:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:33	SMC	EET MID

Client Sample ID: FS28
Date Collected: 04/03/23 13:50
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-28
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 14:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:37	SMC	EET MID

Client Sample ID: FS29
Date Collected: 04/03/23 13:55
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-29
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:42	SMC	EET MID

Client Sample ID: FS30
Date Collected: 04/03/23 14:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-30
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 15:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:47	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS31
Date Collected: 04/03/23 14:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-31
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 16:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 10:51	SMC	EET MID

Client Sample ID: FS32
Date Collected: 04/03/23 14:10
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 16:33	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 11:05	SMC	EET MID

Client Sample ID: FS33
Date Collected: 04/03/23 14:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-33
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 16:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 11:09	SMC	EET MID

Client Sample ID: FS34
Date Collected: 04/03/23 14:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-34
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS34
Date Collected: 04/03/23 14:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-34
Matrix: Solid

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			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 17:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 11:50	SMC	EET MID

Client Sample ID: FS35
Date Collected: 04/03/23 14:25
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-35
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 11:55	SMC	EET MID

Client Sample ID: FS36
Date Collected: 04/03/23 14:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-36
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/10/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 11:59	SMC	EET MID

Client Sample ID: FS37
Date Collected: 04/03/23 14:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-37
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51210	04/14/23 14:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/16/23 04:58	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS37
Date Collected: 04/03/23 14:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 12:04	SMC	EET MID

Client Sample ID: FS38
Date Collected: 04/03/23 14:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-38
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/11/23 07:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 12:08	SMC	EET MID

Client Sample ID: FS39
Date Collected: 04/03/23 14:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-39
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/11/23 07:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 12:13	SMC	EET MID

Client Sample ID: FS40
Date Collected: 04/03/23 14:50
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-40
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50630	04/07/23 16:09	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50774	04/11/23 07:50	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	50692	04/08/23 15:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50890	04/10/23 12:49	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS41
Date Collected: 04/03/23 14:55
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 15:57	SMC	EET MID

Client Sample ID: FS42
Date Collected: 04/03/23 15:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-42
Matrix: Solid

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	50823	04/10/23 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:12	SMC	EET MID

Client Sample ID: FS43
Date Collected: 04/03/23 15:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-43
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 12:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:17	SMC	EET MID

Client Sample ID: FS44
Date Collected: 04/03/23 15:10
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-44
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS44
Date Collected: 04/03/23 15:10
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-44
Matrix: Solid

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			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:22	SMC	EET MID

Client Sample ID: FS45
Date Collected: 04/04/23 09:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-45
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/12/23 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:26	SMC	EET MID

Client Sample ID: FS46
Date Collected: 04/04/23 09:25
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-46
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:41	SMC	EET MID

Client Sample ID: FS47
Date Collected: 04/04/23 09:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-47
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 14:21	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS47
Date Collected: 04/04/23 09:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:46	SMC	EET MID

Client Sample ID: FS48
Date Collected: 04/04/23 09:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:51	SMC	EET MID

Client Sample ID: FS49
Date Collected: 04/04/23 09:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-49
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 15:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 16:55	SMC	EET MID

Client Sample ID: FS50
Date Collected: 04/04/23 09:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-50
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 01:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 15:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:00	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS51
Date Collected: 04/04/23 09:50
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-51
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 16:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:05	SMC	EET MID

Client Sample ID: FS52
Date Collected: 04/04/23 09:55
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 02:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:20	SMC	EET MID

Client Sample ID: FS53
Date Collected: 04/04/23 10:00
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:24	SMC	EET MID

Client Sample ID: FS54
Date Collected: 04/04/23 10:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-54
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS54
Date Collected: 04/04/23 10:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-54
Matrix: Solid

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			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 17:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:39	SMC	EET MID

Client Sample ID: FS55
Date Collected: 04/04/23 10:10
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-55
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 04:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:44	SMC	EET MID

Client Sample ID: FS56
Date Collected: 04/04/23 10:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-56
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 17:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:49	SMC	EET MID

Client Sample ID: FS57
Date Collected: 04/04/23 10:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-57
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 18:15	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: FS57
Date Collected: 04/04/23 10:20
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:54	SMC	EET MID

Client Sample ID: SW01
Date Collected: 04/04/23 10:25
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-58
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 18:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 17:59	SMC	EET MID

Client Sample ID: SW02
Date Collected: 04/04/23 10:30
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-59
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 18:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 18:03	SMC	EET MID

Client Sample ID: SW03
Date Collected: 04/04/23 10:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-60
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50631	04/07/23 16:12	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50777	04/10/23 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50693	04/08/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50895	04/10/23 18:08	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: SW04
Date Collected: 04/04/23 10:40
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-61
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 06:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 17:53	SMC	EET MID

Client Sample ID: SW05
Date Collected: 04/04/23 10:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-62
Matrix: Solid

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	50826	04/10/23 11:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50943	04/13/23 06:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 15:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 17:58	SMC	EET MID

Client Sample ID: SW06
Date Collected: 04/04/23 10:50
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-63
Matrix: Solid

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	50990	04/12/23 12:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/13/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 15:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:11	SMC	EET MID

Client Sample ID: PH01
Date Collected: 03/30/23 12:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-64
Matrix: Solid

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	50817	04/10/23 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/12/23 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 09:37	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH01
Date Collected: 03/30/23 12:05
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-64
Matrix: Solid

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			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 16:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:16	SMC	EET MID

Client Sample ID: PH02
Date Collected: 03/30/23 12:15
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-65
Matrix: Solid

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	50817	04/10/23 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/12/23 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:21	SMC	EET MID

Client Sample ID: PH03
Date Collected: 03/30/23 12:25
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-66
Matrix: Solid

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	50817	04/10/23 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/12/23 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:25	SMC	EET MID

Client Sample ID: PH04
Date Collected: 03/30/23 12:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-67
Matrix: Solid

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	50817	04/10/23 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/12/23 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 17:13	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Client Sample ID: PH04

Date Collected: 03/30/23 12:35
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:30	SMC	EET MID

Client Sample ID: PH05

Date Collected: 03/30/23 12:45
Date Received: 04/04/23 14:35

Lab Sample ID: 890-4469-68
Matrix: Solid

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	50817	04/10/23 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50870	04/12/23 05:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50816	04/12/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			50875	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50694	04/08/23 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50889	04/10/23 18:34	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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

Method Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4469-1	FS01	Solid	03/30/23 15:20	04/04/23 14:35	2'
890-4469-2	FS02	Solid	03/30/23 15:30	04/04/23 14:35	2'
890-4469-3	FS03	Solid	03/31/23 10:45	04/04/23 14:35	2'
890-4469-4	FS04	Solid	03/31/23 11:00	04/04/23 14:35	2'
890-4469-5	FS05	Solid	03/31/23 11:15	04/04/23 14:35	2'
890-4469-6	FS06	Solid	03/31/23 11:30	04/04/23 14:35	2'
890-4469-7	FS07	Solid	03/31/23 11:45	04/04/23 14:35	2'
890-4469-8	FS08	Solid	03/31/23 12:00	04/04/23 14:35	2'
890-4469-9	FS09	Solid	03/31/23 12:15	04/04/23 14:35	2'
890-4469-10	FS10	Solid	03/31/23 12:30	04/04/23 14:35	2'
890-4469-11	FS11	Solid	03/31/23 12:45	04/04/23 14:35	2'
890-4469-12	FS12	Solid	03/31/23 13:45	04/04/23 14:35	2'
890-4469-13	FS13	Solid	03/31/23 14:00	04/04/23 14:35	2'
890-4469-14	FS14	Solid	03/31/23 14:15	04/04/23 14:35	2'
890-4469-15	FS15	Solid	03/31/23 14:30	04/04/23 14:35	2'
890-4469-16	FS16	Solid	03/31/23 14:45	04/04/23 14:35	1'
890-4469-17	FS17	Solid	03/31/23 15:00	04/04/23 14:35	1'
890-4469-18	FS18	Solid	03/31/23 15:15	04/04/23 14:35	1'
890-4469-19	FS19	Solid	04/03/23 09:30	04/04/23 14:35	1'
890-4469-20	FS20	Solid	04/03/23 09:40	04/04/23 14:35	1'
890-4469-21	FS21	Solid	04/03/23 09:50	04/04/23 14:35	1'
890-4469-22	FS22	Solid	04/03/23 10:00	04/04/23 14:35	1'
890-4469-23	FS23	Solid	04/03/23 10:30	04/04/23 14:35	1'
890-4469-24	FS24	Solid	04/03/23 10:40	04/04/23 14:35	1'
890-4469-25	FS25	Solid	04/03/23 13:35	04/04/23 14:35	1'
890-4469-26	FS26	Solid	04/03/23 13:40	04/04/23 14:35	1'
890-4469-27	FS27	Solid	04/03/23 13:45	04/04/23 14:35	1'
890-4469-28	FS28	Solid	04/03/23 13:50	04/04/23 14:35	1'
890-4469-29	FS29	Solid	04/03/23 13:55	04/04/23 14:35	1'
890-4469-30	FS30	Solid	04/03/23 14:00	04/04/23 14:35	1'
890-4469-31	FS31	Solid	04/03/23 14:05	04/04/23 14:35	1'
890-4469-32	FS32	Solid	04/03/23 14:10	04/04/23 14:35	1'
890-4469-33	FS33	Solid	04/03/23 14:15	04/04/23 14:35	1'
890-4469-34	FS34	Solid	04/03/23 14:20	04/04/23 14:35	1'
890-4469-35	FS35	Solid	04/03/23 14:25	04/04/23 14:35	1'
890-4469-36	FS36	Solid	04/03/23 14:30	04/04/23 14:35	1'
890-4469-37	FS37	Solid	04/03/23 14:35	04/04/23 14:35	1'
890-4469-38	FS38	Solid	04/03/23 14:40	04/04/23 14:35	1'
890-4469-39	FS39	Solid	04/03/23 14:45	04/04/23 14:35	1'
890-4469-40	FS40	Solid	04/03/23 14:50	04/04/23 14:35	1'
890-4469-41	FS41	Solid	04/03/23 14:55	04/04/23 14:35	1'
890-4469-42	FS42	Solid	04/03/23 15:00	04/04/23 14:35	1'
890-4469-43	FS43	Solid	04/03/23 15:05	04/04/23 14:35	1'
890-4469-44	FS44	Solid	04/03/23 15:10	04/04/23 14:35	1'
890-4469-45	FS45	Solid	04/04/23 09:20	04/04/23 14:35	1'
890-4469-46	FS46	Solid	04/04/23 09:25	04/04/23 14:35	1'
890-4469-47	FS47	Solid	04/04/23 09:30	04/04/23 14:35	1'
890-4469-48	FS48	Solid	04/04/23 09:35	04/04/23 14:35	1'
890-4469-49	FS49	Solid	04/04/23 09:40	04/04/23 14:35	1'
890-4469-50	FS50	Solid	04/04/23 09:45	04/04/23 14:35	1'
890-4469-51	FS51	Solid	04/04/23 09:50	04/04/23 14:35	1'
890-4469-52	FS52	Solid	04/04/23 09:55	04/04/23 14:35	1'
890-4469-53	FS53	Solid	04/04/23 10:00	04/04/23 14:35	1'
890-4469-54	FS54	Solid	04/04/23 10:05	04/04/23 14:35	1'
890-4469-55	FS55	Solid	04/04/23 10:10	04/04/23 14:35	1'

Sample Summary

Client: Ensolum
Project/Site: PLU 15 TWR Battery

Job ID: 890-4469-1
SDG: 03C1558190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4469-56	FS56	Solid	04/04/23 10:15	04/04/23 14:35	1'
890-4469-57	FS57	Solid	04/04/23 10:20	04/04/23 14:35	1'
890-4469-58	SW01	Solid	04/04/23 10:25	04/04/23 14:35	0-2'
890-4469-59	SW02	Solid	04/04/23 10:30	04/04/23 14:35	0-2'
890-4469-60	SW03	Solid	04/04/23 10:35	04/04/23 14:35	0-1'
890-4469-61	SW04	Solid	04/04/23 10:40	04/04/23 14:35	0-1'
890-4469-62	SW05	Solid	04/04/23 10:45	04/04/23 14:35	0-1'
890-4469-63	SW06	Solid	04/04/23 10:50	04/04/23 14:35	0-1'
890-4469-64	PH01	Solid	03/30/23 12:05	04/04/23 14:35	1'
890-4469-65	PH02	Solid	03/30/23 12:15	04/04/23 14:35	2'
890-4469-66	PH03	Solid	03/30/23 12:25	04/04/23 14:35	2'
890-4469-67	PH04	Solid	03/30/23 12:35	04/04/23 14:35	2'
890-4469-68	PH05	Solid	03/30/23 12:45	04/04/23 14:35	2'

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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

Work Order No: _____

www.xenco.com Page 1 of 7

Project Manager:	Ben Bell, II	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite	Address:	3104 E Green St
City, State ZIP:	Midland, TX	City, State ZIP:	Carlsbad, NM 88220
Phone:	989 854 0852	Email:	

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 Name:	PLU 15 Tank Battery	Turn Around	
Project Number:	03C1558190	☒ Routine ☐ Rush	
Project Location:	Lea Co, NM	Due Date:	
Sampler's Name:	Trinity N. Kanaya	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TAM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.0	
Total Containers:		Corrected Temperature:	0.8	

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	Parameters: TPH	Parameters: CHLORIDES	Sample Comments
FS01	S	03/30	15:20	2'	Comp	1		X	X	X	Incident nAPP2305353428
FS02		03/30	15:30								Cost Center
FS03		03/31	10:45								2027271001
FS04			11:00								
FS05			11:15								
FS06			11:30								
FS07			11:45								
FS08			12:00								
FS09			12:15								
FS10	↓	↓	12:30	↓	↓	↓		↓	↓	↓	

890-4469 Chain of Custody

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DN	Amanda Stafford	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 2 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS11	S	3/31/2023	12:45	2'	Comp	1		X	X	X	INCIDENT #: nAPP2305833429
FS12	S	3/31/2023	13:45	2'	Comp	1		X	X	X	
FS13	S	3/31/2023	14:00	2'	Comp	1		X	X	X	Cost Center: 2027711001
FS14	S	3/31/2023	14:15	2'	Comp	1		X	X	X	
FS15	S	3/31/2023	14:30	2'	Comp	1		X	X	X	
FS16	S	3/31/2023	14:45	1'	Comp	1		X	X	X	
FS17	S	3/31/2023	15:00	1'	Comp	1		X	X	X	
FS18	S	3/31/2023	15:15	1'	Comp	1		X	X	X	
FS19	S	4/3/2023	9:30	1'	Comp	1		X	X	X	
FS20	S	4/3/2023	9:40	1'	Comp	1		X	X	X	

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DN	Amanda Short	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 3 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS21	S	4/3/2023	9:50	1'	Comp	1		X	X	X
FS22	S	4/3/2023	10:00	1'	Comp	1		X	X	X
FS23	S	4/3/2023	10:30	1'	Comp	1		X	X	X
FS24	S	4/3/2023	10:40	1'	Comp	1		X	X	X
FS25	S	4/3/2023	13:35	1'	Comp	1		X	X	X
FS26	S	4/3/2023	13:40	1'	Comp	1		X	X	X
FS27	S	4/3/2023	13:45	1'	Comp	1		X	X	X
~~FS28~~	~~S~~	~~4/3/2023~~	~~13:50~~	~~1'~~	~~Comp~~	~~1~~		~~X~~	~~X~~	~~X~~
FS29	S	4/3/2023	13:55	1'	Comp	1		X	X	X
FS30	S	4/3/2023	14:00	1'	Comp	1		X	X	X

Sample Comments

INCIDENT #: nAPP2305833429
Cost Center: 2027711001

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DIV	Amanda Stuff	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 4 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)	Sample Comments
FS31	S	4/3/2023	14:05	1'	Comp	1		X	X	X	INCIDENT #: nAPP2305833429
FS32	S	4/3/2023	14:10	1'	Comp	1		X	X	X	
FS33	S	4/3/2023	14:15	1'	Comp	1		X	X	X	Cost Center: 2027711001
FS34	S	4/3/2023	14:20	1'	Comp	1		X	X	X	
FS35	S	4/3/2023	14:25	1'	Comp	1		X	X	X	
FS36	S	4/3/2023	14:30	1'	Comp	1		X	X	X	
FS37	S	4/3/2023	14:35	1'	Comp	1		X	X	X	
FS38	S	4/3/2023	14:40	1'	Comp	1		X	X	X	
FS39	S	4/3/2023	14:45	1'	Comp	1		X	X	X	
FS40	S	4/3/2023	14:50	1'	Comp	1		X	X	X	

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 SiO_2 Na Sr Tl 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 Tl 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 DN	Amanda Stuff	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 5 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS41	S	4/3/2023	14:55	1'	Comp	1		X	X	X
FS42	S	4/3/2023	15:00	1'	Comp	1		X	X	X
FS43	S	4/3/2023	15:05	1'	Comp	1		X	X	X
FS44	S	4/3/2023	15:10	1'	Comp	1		X	X	X
FS45	S	4/4/2023	9:20	1'	Comp	1		X	X	X
FS46	S	4/4/2023	9:25	1'	Comp	1		X	X	X
FS47	S	4/4/2023	9:30	1'	Comp	1		X	X	X
FS48	S	4/4/2023	9:35	1'	Comp	1		X	X	X
FS49	S	4/4/2023	9:40	1'	Comp	1		X	X	X
FS50	S	4/4/2023	9:45	1'	Comp	1		X	X	X

Sample Comments

INCIDENT #: nAPP2305833429

Cost Center: 2027711001

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 PC	Amanda Stuff	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 6 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS51	S	4/3/2023	9:50	1'	Comp	1		X	X	X	INCIDENT #: nAPP2305833429
FS52	S	4/4/2023	9:55	1'	Comp	1		X	X	X	
FS53	S	4/4/2023	10:00	1'	Comp	1		X	X	X	Cost Center: 2027711001
FS54	S	4/4/2023	10:05	1'	Comp	1		X	X	X	
FS55	S	4/4/2023	10:10	1'	Comp	1		X	X	X	
FS56	S	4/4/2023	10:15	1'	Comp	1		X	X	X	
FS57	S	4/4/2023	10:20	1'	Comp	1		X	X	X	
SW01	S	4/4/2023	10:25	0-2'	Comp	1		X	X	X	
SW02	S	4/4/2023	10:30	0-2'	Comp	1		X	X	X	
SW03	S	4/4/2023	10:35	0-1'	Comp	1		X	X	X	

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 SiO_2 Na Sr Tl 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 Tl 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 DN	Amanda Stott	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 7 of 7

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	601 N Marienfeld St Suite 400	Address:	3104 E. Green St
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com, bbelill@ensolum.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021	Sample Comments
SW04	S	4/3/2023	10:40	0-1'	Comp	1		X	X	X	INCIDENT #: nAPP2305833429
SW05	S	4/4/2023	10:45	0-1'	Comp	1		X	X	X	
SW06	S	4/4/2023	10:50	0-1'	Comp	1		X	X	X	Cost Center: 2027711001
PH01	S	3/30/2023	12:05	1'	Grab	1		X	X	X	
PH02	S	3/30/2023	12:15	2'	Grab	1		X	X	X	
PH03	S	3/30/2023	12:25	2'	Grab	1		X	X	X	
PH04	S	3/30/2023	12:35	2'	Grab	1		X	X	X	
PH05	S	3/30/2023	12:45	2'	Grab	1		X	X	X	

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 SiO_2 Na Sr Tl 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 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 PN	Amanda Stuff	4/4/23 1435	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4469-1
SDG Number: 03C1558190

Login Number: 4469
List Number: 1
Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4469-1
SDG Number: 03C1558190

Login Number: 4469
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/06/23 12:13 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 4/28/2023 3:34:14 PM

JOB DESCRIPTION

PLU 15 TWR BATTERY
SDG NUMBER 03C1558190

JOB NUMBER

890-4557-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

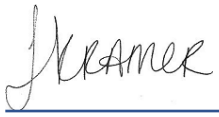
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
4/28/2023 3:34:14 PM

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

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Laboratory Job ID: 890-4557-1
SDG: 03C1558190

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Job ID: 890-4557-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4557-1

Receipt
The sample was received on 4/21/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: FS53A (890-4557-1).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51919 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-51847/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-51847 and analytical batch 880-51919 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51848 and analytical batch 880-51824 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4554-A-11-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51848 and analytical batch 880-51824 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-51824 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-51824/5).

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51911 and analytical batch 880-52214 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The

Case Narrative

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Job ID: 890-4557-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

associated sample is: FS53A (890-4557-1).

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Client Sample ID: FS53A

Date Collected: 04/20/23 12:15
Date Received: 04/21/23 08:15
Sample Depth: 1

Lab Sample ID: 890-4557-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/24/23 12:25	04/26/23 04:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/24/23 12:25	04/26/23 04:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/24/23 12:25	04/26/23 04:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/24/23 12:25	04/26/23 04:25	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		04/24/23 12:25	04/26/23 04:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/24/23 12:25	04/26/23 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/24/23 12:25*	*04/26/23 04:25*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*04/24/23 12:25*	*04/26/23 04:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/26/23 10:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 10:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 18:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 18:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*04/24/23 12:29*	*04/24/23 18:06*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/24/23 12:29*	*04/24/23 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.5**		5.00		mg/Kg			04/28/23 09:14	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-27504-A-5-A MS	Matrix Spike	121	105										
880-27504-A-5-B MSD	Matrix Spike Duplicate	130	94										
890-4557-1	FS53A	99	80										
LCS 880-51847/1-A	Lab Control Sample	134 S1+	95										
LCSD 880-51847/2-A	Lab Control Sample Dup	121	99										
MB 880-51847/5-A	Method Blank	84	81										
MB 880-51922/5-A	Method Blank	79	94										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-4554-A-11-C MS	Matrix Spike	91	103										
890-4554-A-11-D MSD	Matrix Spike Duplicate	109	117										
890-4557-1	FS53A	119	129										
LCS 880-51848/2-A	Lab Control Sample	106	130										
LCSD 880-51848/3-A	Lab Control Sample Dup	124	150 S1+										
MB 880-51848/1-A	Method Blank	119	154 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51847/5-A
Matrix: Solid
Analysis Batch: 51919

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51847

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/24/23 12:25*	*04/25/23 21:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/24/23 12:25*	*04/25/23 21:35*	*1*

Lab Sample ID: LCS 880-51847/1-A
Matrix: Solid
Analysis Batch: 51919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51847

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08631		mg/Kg		86	70 - 130		
Toluene			0.100	0.09597		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1120		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene			0.200	0.2393		mg/Kg		120	70 - 130		
o-Xylene			0.100	0.1306	*+	mg/Kg		131	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-51847/2-A
Matrix: Solid
Analysis Batch: 51919

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51847

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09470		mg/Kg		95	70 - 130	9	35
Toluene			0.100	0.09741		mg/Kg		97	70 - 130	1	35
Ethylbenzene			0.100	0.1068		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2288		mg/Kg		114	70 - 130	4	35
o-Xylene			0.100	0.1317	*+	mg/Kg		132	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-27504-A-5-A MS
Matrix: Solid
Analysis Batch: 51919

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0998	0.08242		mg/Kg		83	70 - 130		
Toluene	<0.00198	U	0.0998	0.08512		mg/Kg		85	70 - 130		

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

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

Lab Sample ID: 880-27504-A-5-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51919 — **Prep Batch: 51847**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0998	0.08806		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1844		mg/Kg		92	70 - 130
o-Xylene	<0.00198	U *+	0.0998	0.09266		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-27504-A-5-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51919 — **Prep Batch: 51847**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.08494		mg/Kg		85	70 - 130	3	35
Toluene	<0.00198	U	0.100	0.08728		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.09864		mg/Kg		98	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2061		mg/Kg		103	70 - 130	11	35
o-Xylene	<0.00198	U *+	0.100	0.1094		mg/Kg		109	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-51922/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51919 — **Prep Batch: 51922**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/25/23 08:22	04/25/23 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/25/23 08:22	04/25/23 11:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/25/23 08:22	04/25/23 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*04/25/23 08:22*	*04/25/23 11:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/25/23 08:22*	*04/25/23 11:00*	*1*

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

Lab Sample ID: MB 880-51848/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51824 — **Prep Batch: 51848**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 15:31	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

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

Lab Sample ID: MB 880-51848/1-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51848

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 15:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*04/24/23 12:29*	*04/24/23 15:31*	*1*
o-Terphenyl	*154*	*S1+*	*70 - 130*	*04/24/23 12:29*	*04/24/23 15:31*	*1*

Lab Sample ID: LCS 880-51848/2-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51848

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.9		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	911.5		mg/Kg		91	70 - 130		

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

Lab Sample ID: LCSD 880-51848/3-A
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51848

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1052		mg/Kg		105	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*150*	*S1+*	*70 - 130*

Lab Sample ID: 890-4554-A-11-C MS
Matrix: Solid
Analysis Batch: 51824

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51848

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	913.0		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1056		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

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

Lab Sample ID: 890-4554-A-11-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51824 — **Prep Batch: 51848**

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 F2	998	1200	F2	mg/Kg		120	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1231		mg/Kg		123	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51911/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 52214

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/28/23 07:48	1

Lab Sample ID: LCS 880-51911/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 52214

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.9		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-51911/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 52214

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	268.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-4562-A-21-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 52214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		251	419.1		mg/Kg		106	90 - 110		

Lab Sample ID: 890-4562-A-21-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 52214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		251	418.5		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

GC VOA

Prep Batch: 51847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	5035	
MB 880-51847/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27504-A-5-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27504-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	8021B	51847
MB 880-51847/5-A	Method Blank	Total/NA	Solid	8021B	51847
MB 880-51922/5-A	Method Blank	Total/NA	Solid	8021B	51922
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	8021B	51847
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51847
880-27504-A-5-A MS	Matrix Spike	Total/NA	Solid	8021B	51847
880-27504-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51847

Prep Batch: 51922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51922/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 52026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	8015B NM	51848
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015B NM	51848
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51848
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51848
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51848
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51848

Prep Batch: 51848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	8015NM Prep	
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

HPLC/IC

Leach Batch: 51911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Soluble	Solid	DI Leach	
MB 880-51911/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51911/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51911/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4562-A-21-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4562-A-21-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4557-1	FS53A	Soluble	Solid	300.0	51911
MB 880-51911/1-A	Method Blank	Soluble	Solid	300.0	51911
LCS 880-51911/2-A	Lab Control Sample	Soluble	Solid	300.0	51911
LCSD 880-51911/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51911
890-4562-A-21-C MS	Matrix Spike	Soluble	Solid	300.0	51911
890-4562-A-21-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51911

Lab Chronicle

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Client Sample ID: FS53A

Date Collected: 04/20/23 12:15
Date Received: 04/21/23 08:15

Lab Sample ID: 890-4557-1

Matrix: Solid

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	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52026	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51935	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51911	04/25/23 07:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52214	04/28/23 09:14	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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

Method Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 15 TWR BATTERY

Job ID: 890-4557-1
SDG: 03C1558190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4557-1	FS53A	Solid	04/20/23 12:15	04/21/23 08:15	1

Chain of Custody

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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: _____

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Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

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 Name:	PLU 15 TWR Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558190	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IWM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
FS53A	S	4/20/23	12:15	1'	C	1		/	/	/

890-4557 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2305833429

Cost Center:
2027711001

AFE:

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Clear Cup	4.21.23 815	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4557-1
SDG Number: 03C1558190

Login Number: 4557
List Number: 1
Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4557-1
SDG Number: 03C1558190

Login Number: 4557
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/24/23 09:11 AM

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

ENSOLUM

APPENDIX E

NMOCD Notifications

Ben Belill

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, March 23, 2023 9:51 AM
To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Cc: Ben Belill; DelawareSpills /SM
Subject: XTO - Sampling Notification (Week of 3/27/23 - 3/31/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of Mar 27, 2023.

Tuesday, Mar 28, 2023
- PLU 13 Dog Town Draw Battery / nAPP2304448906
- Nash 53 SWD / NAB1918643207, NRM2022758966, NAPP2102934064, NAPP2100847227, and NAPP2100838523

Wednesday, Mar 29, 2023
- PLU Pierce Canyon 12 Battery / nAPP2306152871
- PLU 13 Dog Town Draw Battery / nAPP2304448906

Thursday, Mar 30, 2023
- PLU Pierce Canyon 12 Battery / nAPP2306152871
- BEU 149 / NAB1814128371
- PLU 15 TWR Battery / nAPP2305833429

Friday, Mar 31, 2023
- PLU 15 TWR Battery / nAPP2305833429
- JRU 21 SWD / nAB1834656162

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 216504

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 216504
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2305833429 PLU 15 TWIN WELLS RANCH BATTERY, thank you. This closure is approved.	9/21/2023