State of New Mexico
Oil Conservation Division

Incident ID	NAPP2235646436
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: __3/15/2023_____

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

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

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: 7/27/2023

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	NAPP2235646436
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 32.14932 Longitude -103.84715
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU C 2	Site Type Recycle Facility
Date Release Discovered 12/20/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	11	25S	30E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 8.82	Volume Recovered (bbls) 0.00
	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: Human error allowed fluids to release to soil during a water transfer operation when a valve was not positioned correctly prior to procedure. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2235646436
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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: 12/22/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 12/22/2022

Location:	PLUC 2	
Spill Date:	12/20/2022	

Area 1		
Approximate Area =	5226.00	sq. ft.
Average Saturation (or depth) of spill =	0.25	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	1.58	bbls

Area 2		
Approximate Area =	3254.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches

Average Porosity Factor =	0.15	

VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	7.24	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**8.82**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**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

Action 169627

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 169627
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/22/2022

Incident ID	NAPP2235646436
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	NAPP2235646436
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 3/15/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

Incident ID	NAPP2235646436
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Closure

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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

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Printed Name: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: __3/15/2023_____

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

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

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

March 15, 2023

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

Re: Closure Request
PLU C 2 Recycle Facility
Incident Number NAPP2235646436
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 and soil sampling activities performed at the PLU C 2 Recycle Facility (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a produced water release. Based on Site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2235646436.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 11, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.14932°, -103.84715°) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On December 20, 2022, a valve was improperly positioned during a produced water transfer operation, causing the release of approximately 8.82 barrels (bbls) of produced water onto the ground surface of the facility pad. No fluids 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 December 22, 2022. The release was assigned Incident Number NAPP2235646436.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is United States Geological Suvery (USGS) well USGS 320856103502801 located approximately 0.32 miles east of the Site. The groundwater well has a reported depth to groundwater of 391 feet bgs and a total depth of 482 feet bgs. The most recent depth to groundwater data was collected on January 28, 1998, which slightly exceeds the NMOCD-preference for the depth to water measurement to have occurred within the last 25 years. However, this water well has a historic record, which can be more useful than one data point measured during installation of the well. The well record indicates that depth

to groundwater did not fluctuate more than 1.2 feet over a period of 39 years. The deep occurrence (391 feet bgs) and historical record only minor fluctuation in groundwater elevation suggest it is highly unlikely that depth to water in this area would have risen to less than 100 feet during more recent years. Ground surface elevation at the groundwater well location is 3,371 feet above mean sea level (amsl), which is approximately 3 feet higher in elevation than the Site. Ensolum requests NMOCD consider the historical record as evidence of deep groundwater. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 1,514 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). All 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 AND DELINEATION ACTIVITIES

On January 10, 2023, Site assessment activities were conducted by Ensolum to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ten delineation soil samples (SS01 through SS10) were collected within and around the release extent at a depth of 0.5 feet bgs. Delineation soil samples SS01 through SS07 were collected within the release extent and samples SS08 through SS10 were collected around the release extent to determine lateral definition of the release. Lateral definition south of the release is defined by the location of two recycle facility ponds. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

On February 2, 2023, Ensolum personnel returned to the Site to complete additional delineation activities. Seven boreholes (PH01 through PH07) were advanced via hand auger to assess the vertical

extent of the release. Boreholes PH01 through PH07 were advanced in the vicinity of SS01 through SS07, respectively. Discrete delineation soil samples were collected from each borehole at depths ranging from 1-foot bgs to 3 feet bgs. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs and are included in Appendix B. The delineation soil samples were handled and analyzed as described above. Photographic documentation was conducted during the Site visit and a photographic log is included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated COC concentrations for all delineation soil samples were in compliance with the Closure Criteria. Additionally, laboratory analytical results for all lateral soil samples collected and soil samples collected at the terminal depth of each borehole, indicate COC concentrations were in compliance with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 20, 2022 release of produced water. Laboratory analytical results for all delineation soil samples indicated COC concentrations were compliant with the Closure Criteria. Additionally, laboratory analytical results for all lateral soil samples collected and soil samples collected at the terminal depth of each borehole, meet the most stringent Table I Closure Criteria, which provides full definition of the release and confirms the release was contained on the facility pad.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with Closure Criteria, no further remediation was required. As such, XTO respectfully requests closure for Incident Number NAPP2235646436.

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

Sincerely,
Ensolum, LLC

Benjamin J. Belill
Project Geologist

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

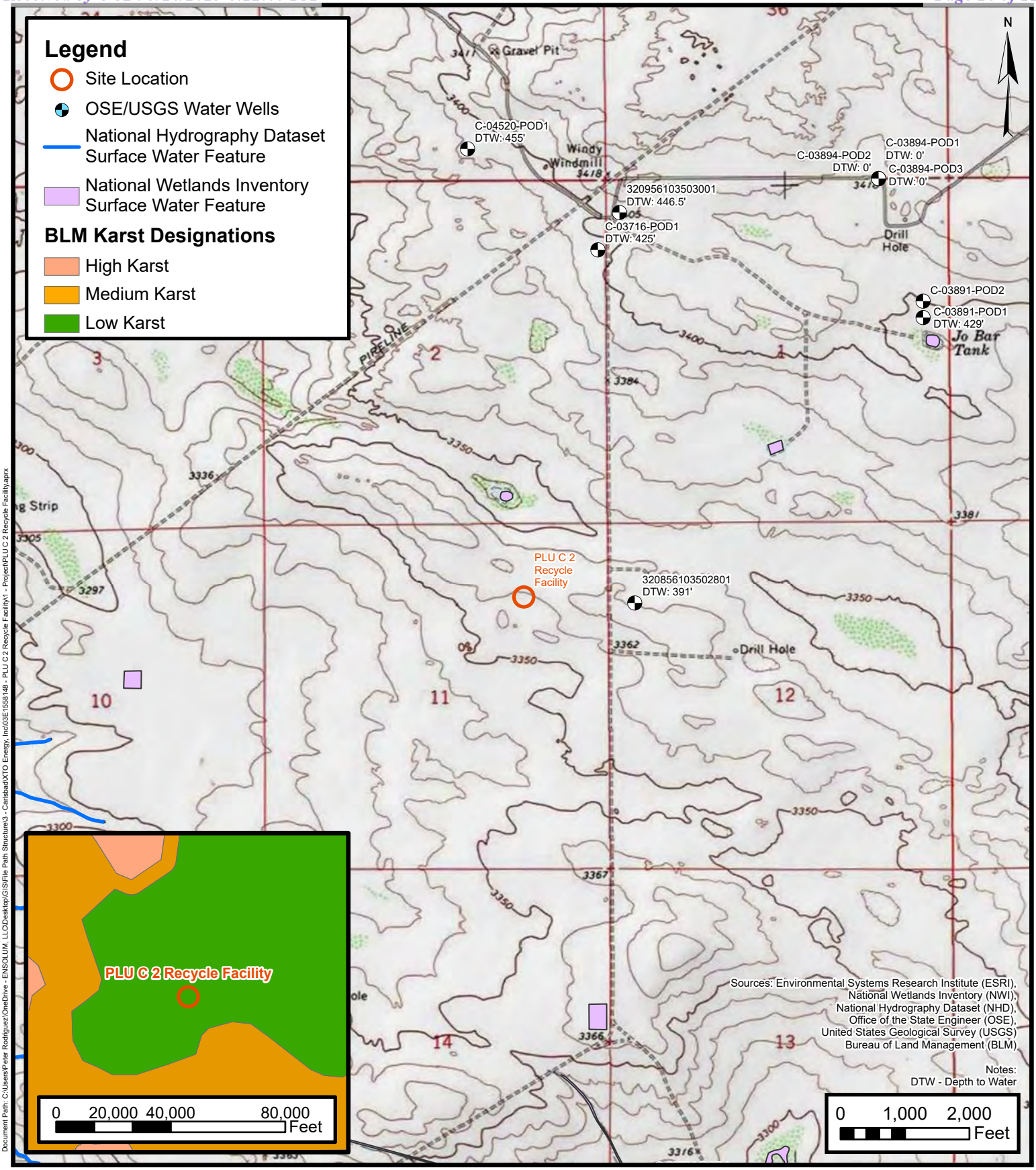
cc: Garrett Green, XTO
Shelby Pennington, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records

ENSOLUM

FIGURES



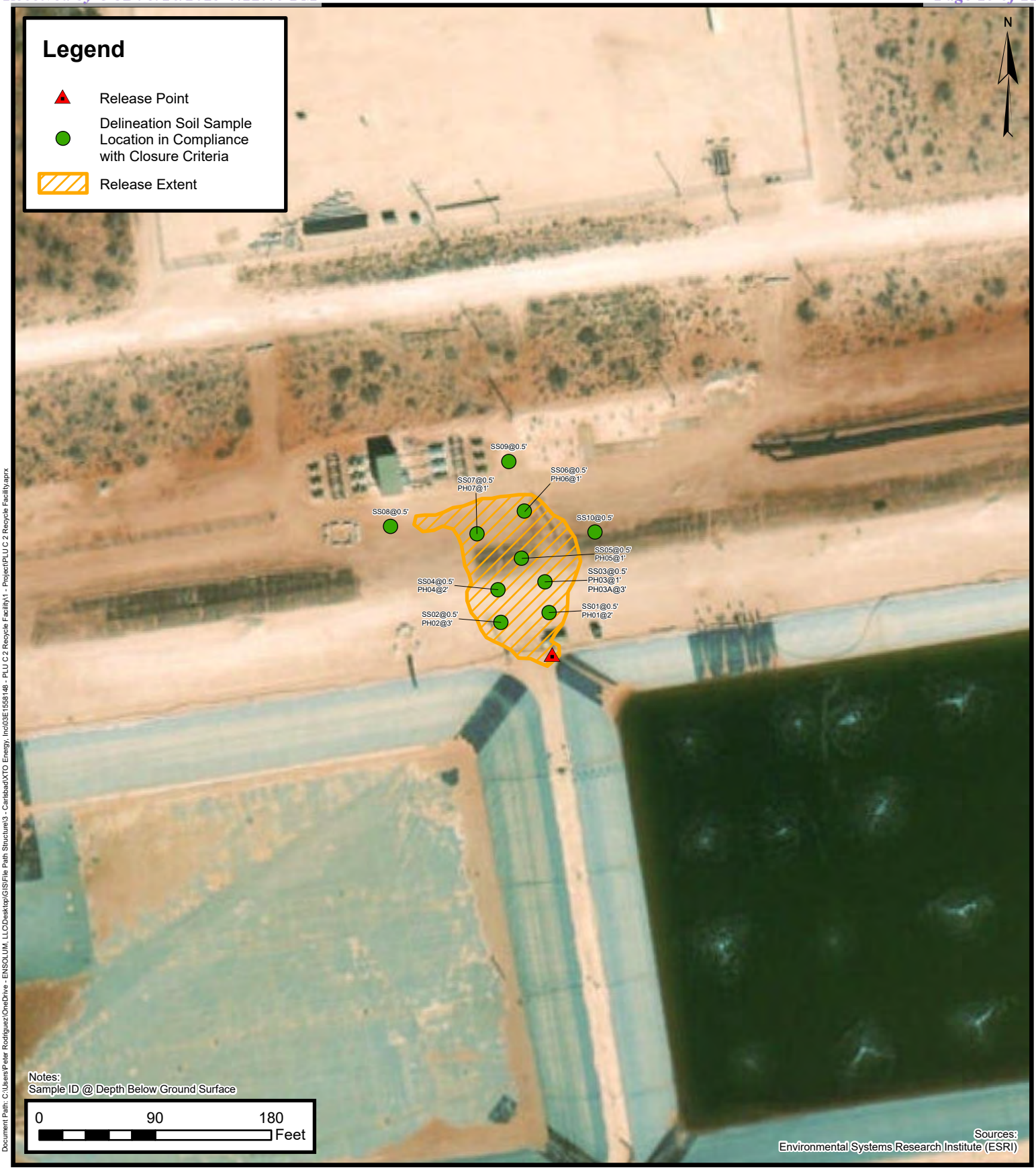
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\XTO Energy, Inc\03E1558148 - PLU C 2 Recycle Facility\1 - Project\PLU C 2 Recycle Facility.aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
PLU C 2 Recycle Facility
Incident Number: NAPP2235646436
Unit A Sec 11 T25S R30E
Eddy County, New Mexico

FIGURE
1



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy, Inc
PLU C 2 Recycle Facility
Incident Number: NAPP2235646436
Unit A Sec 11 T25S R30E
Eddy County, New Mexico

FIGURE
2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU C 2 RECYCLE FACILITY
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	01/10/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	221
PH01	02/02/2023	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	160
SS02	01/10/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,870
PH02	02/02/2023	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	136
SS03	01/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	329
PH03	02/02/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	930
PH03A	02/02/2023	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126
SS04	01/10/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	709
PH04	02/02/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
SS05	01/10/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	214
PH05	02/02/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6.46
SS06	01/10/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	7,960
PH06	02/02/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	59.4
SS07	01/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	148
PH07	02/02/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	22.1
SS08	01/10/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	66.8
SS09	01/10/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	51.7
SS10	01/10/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	49.9

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

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APPENDIX A

Referenced Well Records

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320856103502801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320856103502801 25S.30E.12.113211

Eddy County, New Mexico
Latitude 32°08'56", Longitude 103°50'28" NAD27
Land-surface elevation 3,371 feet above NAVD88
The depth of the well is 482 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-03-25		D	62610		2978.00	NGVD29	1	Z		
1959-03-25		D	62611		2979.70	NAVD88	1	Z		
1959-03-25		D	72019	391.30			1	Z		
1983-01-31		D	62610		2979.00	NGVD29	1	Z		
1983-01-31		D	62611		2980.70	NAVD88	1	Z		
1983-01-31		D	72019	390.30			1	Z		
1987-10-20		D	62610		2978.89	NGVD29	1	Z		
1987-10-20		D	62611		2980.59	NAVD88	1	Z		
1987-10-20		D	72019	390.41			1	Z		
1992-11-06		D	62610		2978.89	NGVD29	1	S		
1992-11-06		D	62611		2980.59	NAVD88	1	S		
1992-11-06		D	72019	390.41			1	S		
1998-01-28		D	62610		2979.22	NGVD29	1	S		
1998-01-28		D	62611		2980.92	NAVD88	1	S		
1998-01-28		D	72019	390.08			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2023-01-23 10:25:31 EST
0.27 0.23 nadww02

ENSOLUM

APPENDIX B

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: PH01	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149320, -103.847150	Hole Diameter: 3.5"	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	526	0.3	N	SS01	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	526	0.2	N	PH01	1	1	SP	1'-2', SAND, moist, brown-reddish brown, poorly graded, fine grained, no stain, no odor.
M	<158	0.2	N	PH01	2	2	TD	Total depth at 2 feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH02	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149381, -103.847208	Hole Diameter: 3.5"	Total Depth: 3'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1,930	0.3	N	SS02	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	868	0.2	N		1	1	SP	1'-3', SAND, moist, brown-reddish brown, poorly graded, fine grained, no stain, no odor.
M	717	0.2	N		2	2		
M	<158	0.2	N	PH02	3	3	TD	Total depth at 3 feet bgs.
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH03	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149465, -103.847088	Hole Diameter: 3.5"	Total Depth: 3'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	220	0.3	N	SS03	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	1,126	0.2	N	PH03	1	1	SP	1'-3', SAND, moist, brown-reddish brown, poorly graded, fine grained, no stain, no odor.
M	582	0.2	N		2	2		
M	<158	0.1	N	PH03A	3	3	TD	Total depth at 3 feet bgs.
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH04	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149458, -103.847221	Hole Diameter: 3.5"	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	806	0.3	N	SS04	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	582	0.2	N		1	1	SP	1'-2', SAND, moist, brown-reddish brown, poorly graded, fine grained, no stain, no odor.
M	<158	0.2	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: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149524, -103.847151	Hole Diameter: 3.5"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	329	0.3	N	SS05	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	<158	0.2	N	PH05	1	1	TD	Total depth at 1 foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM	Sample Name: PH06	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149617, -103.847140	Hole Diameter: 3.5"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	8,240	0.3	N	SS06	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	<158	0.2	N	PH06	1	1	TD	Total depth at 1 foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM	Sample Name: PH07	Date: 2/2/2023
	Site Name: PLU C 2 Recycle Facility	
	Incident Number: nAPP2235646436	
	Job Number: 03C1558148	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Hand Auger
Coordinates: 32.149572, -103.847263	Hole Diameter: 3.5"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included on all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<158	0.3	N	SS06	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, some fine grained brown sand, unconsolidated fill, no stain, no odor.
M	<158	0.2	N	PH06	1	1	TD	Total depth at 1 foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
PLU C 2 Recycle Facility
NAPP2235646436

Photograph 1 Date: 1/10/2023
Description: Site assessment, release extent area.
View: Southeast

Photograph 2 Date: 1/10/2023
Description: Site assessment, release extent area.
View: Northeast

Photograph 3 Date: 1/10/2023
Description: Site assessment, release extent area.
View: North

Photograph 4 Date: 2/2/2023
Description: Delineation activities, SS01/PH01.
View: West

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 1/16/2023 6:26:07 PM

JOB DESCRIPTION

PLU PC 2
SDG NUMBER 03C1558148

JOB NUMBER

890-3823-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

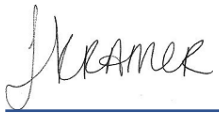
my EOL

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
1/16/2023 6:26:07 PM

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

Client: Ensolum
Project/Site: PLU PC 2

Laboratory Job ID: 890-3823-1
SDG: 03C1558148

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Qualifiers

GC VOA

Qualifier	Qualifier Description
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 PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Job ID: 890-3823-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3823-1

Receipt
The samples were received on 1/11/2023 10:55 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 1.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3823-1), SS02 (890-3823-2), SS03 (890-3823-3), SS04 (890-3823-4), SS05 (890-3823-5), SS06 (890-3823-6) and SS07 (890-3823-7).

GC VOA
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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43837 and analytical batch 880-43854 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-43837/2-A), (LCSD 880-43837/3-A) and (MB 880-43837/1-A). Evidence of matrix interferences is not obvious.

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

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 PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS01

Lab Sample ID: 890-3823-1
Matrix: Solid
Date Collected: 01/10/23 11:45
Date Received: 01/11/23 10:55
Sample Depth: 0.5

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		01/12/23 14:58	01/14/23 12:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:58	01/14/23 12:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:58	01/14/23 12:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/12/23 14:58	01/14/23 12:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:58	01/14/23 12:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/12/23 14:58	01/14/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/12/23 14:58*	*01/14/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/12/23 14:58*	*01/14/23 12:23*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 00:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 00:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/12/23 15:11*	*01/14/23 00:35*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/12/23 15:11*	*01/14/23 00:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		5.03		mg/Kg			01/14/23 04:17	1

Client Sample ID: SS02

Lab Sample ID: 890-3823-2
Matrix: Solid
Date Collected: 01/10/23 11:55
Date Received: 01/11/23 10:55
Sample Depth: 0.5

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		01/12/23 14:58	01/14/23 12:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 12:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 12:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/12/23 14:58	01/14/23 12:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 12:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/12/23 14:58	01/14/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/12/23 14:58*	*01/14/23 12:44*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS02

Date Collected: 01/10/23 11:55
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Lab Sample ID: 890-3823-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/12/23 14:58*	*01/14/23 12:44*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 00:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/14/23 00:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/14/23 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*01/12/23 15:11*	*01/14/23 00:56*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/12/23 15:11*	*01/14/23 00:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1870**		25.1	mg/Kg			01/14/23 04:22	5

Client Sample ID: SS03

Date Collected: 01/10/23 12:05
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Lab Sample ID: 890-3823-3

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		01/12/23 14:58	01/14/23 13:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 13:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/12/23 14:58	01/14/23 13:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 13:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/12/23 14:58	01/14/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:04*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:04*	*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			01/16/23 17:00	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			01/16/23 16:35	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS03

Lab Sample ID: 890-3823-3
Matrix: Solid
Date Collected: 01/10/23 12:05
Date Received: 01/11/23 10:55
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		01/12/23 15:11	01/14/23 01:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 01:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*01/12/23 15:11*	*01/14/23 01:40*	*1*
o-Terphenyl	*95*		*70 - 130*	*01/12/23 15:11*	*01/14/23 01:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**		4.98		mg/Kg			01/14/23 04:28	1

Client Sample ID: SS04

Lab Sample ID: 890-3823-4
Matrix: Solid
Date Collected: 01/10/23 12:15
Date Received: 01/11/23 10:55
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		01/12/23 14:58	01/14/23 13:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 13:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 13:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 13:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:24*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:24*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 02:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/12/23 15:11	01/14/23 02:03	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/12/23 15:11	01/14/23 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:03*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS04

Lab Sample ID: 890-3823-4
Matrix: Solid
Date Collected: 01/10/23 12:15
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	709		4.96		mg/Kg			01/14/23 04:33	1

Client Sample ID: SS05

Lab Sample ID: 890-3823-5
Matrix: Solid
Date Collected: 01/10/23 12:25
Date Received: 01/11/23 10:55
Sample Depth: 0.5

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		01/12/23 14:58	01/14/23 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 13:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/12/23 14:58	01/14/23 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 13:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/12/23 14:58	01/14/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/12/23 14:58*	*01/14/23 13:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 02:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 02:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:25*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.04		mg/Kg			01/14/23 04:50	1

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS06

Lab Sample ID: 890-3823-6
Matrix: Solid
Date Collected: 01/10/23 12:35
Date Received: 01/11/23 10:55
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		01/12/23 14:58	01/14/23 14:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 14:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/12/23 14:58*	*01/14/23 14:05*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/12/23 14:58*	*01/14/23 14:05*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 02:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 02:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:47*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/12/23 15:11*	*01/14/23 02:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7960**		49.7		mg/Kg			01/14/23 04:55	10

Client Sample ID: SS07

Lab Sample ID: 890-3823-7
Matrix: Solid
Date Collected: 01/10/23 12:45
Date Received: 01/11/23 10:55
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		01/12/23 14:58	01/14/23 14:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 14:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:58	01/14/23 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/12/23 14:58	01/14/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/12/23 14:58*	*01/14/23 14:26*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS07
Date Collected: 01/10/23 12:45
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Lab Sample ID: 890-3823-7
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*	*01/12/23 14:58*	*01/14/23 14:26*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 03:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 03:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:09*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		5.03		mg/Kg			01/14/23 05:11	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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)
890-3823-1	SS01	111	104
890-3823-1 MS	SS01	109	105
890-3823-1 MSD	SS01	107	105
890-3823-2	SS02	113	103
890-3823-3	SS03	116	105
890-3823-4	SS04	120	106
890-3823-5	SS05	117	101
890-3823-6	SS06	119	104
890-3823-7	SS07	118	104
LCS 880-43835/1-A	Lab Control Sample	104	103
LCSD 880-43835/2-A	Lab Control Sample Dup	105	102
MB 880-43832/5-B	Method Blank	109	99
MB 880-43835/5-A	Method Blank	108	99

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)
880-23613-A-1-D MS	Matrix Spike	99	80
880-23613-A-1-E MSD	Matrix Spike Duplicate	83	75
890-3823-1	SS01	110	111
890-3823-2	SS02	111	113
890-3823-3	SS03	96	95
890-3823-4	SS04	103	103
890-3823-5	SS05	97	97
890-3823-6	SS06	93	92
890-3823-7	SS07	101	101
LCS 880-43837/2-A	Lab Control Sample	138 S1+	124
LCSD 880-43837/3-A	Lab Control Sample Dup	140 S1+	130
MB 880-43837/1-A	Method Blank	186 S1+	164 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43832/5-B
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43832

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*

Lab Sample ID: MB 880-43835/5-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43835

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/12/23 14:58	01/14/23 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/12/23 14:58*	*01/14/23 11:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/12/23 14:58*	*01/14/23 11:54*	*1*

Lab Sample ID: LCS 880-43835/1-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43835

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08829		mg/Kg		88	70 - 130		
Toluene			0.100	0.08410		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08216		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1680		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08252		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-43835/2-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43835

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07938		mg/Kg		79	70 - 130	11	35

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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

Lab Sample ID: LCSD 880-43835/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43866 — **Prep Batch: 43835**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07607		mg/Kg		76	70 - 130	10	35
Ethylbenzene			0.100	0.07394		mg/Kg		74	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1504		mg/Kg		75	70 - 130	11	35
o-Xylene			0.100	0.07576		mg/Kg		76	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-3823-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43866 — **Prep Batch: 43835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	<0.00202	U	0.100	0.09441		mg/Kg		94	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.09001		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1820		mg/Kg		91	70 - 130
o-Xylene	<0.00202	U	0.100	0.09231		mg/Kg		92	70 - 130

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

Lab Sample ID: 890-3823-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43866 — **Prep Batch: 43835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09074		mg/Kg		92	70 - 130	15	35
Toluene	<0.00202	U	0.0990	0.08060		mg/Kg		81	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.0990	0.07674		mg/Kg		78	70 - 130	16	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1551		mg/Kg		78	70 - 130	16	35
o-Xylene	<0.00202	U	0.0990	0.07902		mg/Kg		79	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-43837/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43854 — **Prep Batch: 43837**

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		01/12/23 15:11	01/13/23 19:51	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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

Lab Sample ID: MB 880-43837/1-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43837

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		01/12/23 15:11	01/13/23 19:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/13/23 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*186*	*S1+*	*70 - 130*	*01/12/23 15:11*	*01/13/23 19:51*	*1*
o-Terphenyl	*164*	*S1+*	*70 - 130*	*01/12/23 15:11*	*01/13/23 19:51*	*1*

Lab Sample ID: LCS 880-43837/2-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1056		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*138*	*S1+*	*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: LCSD 880-43837/3-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43837

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	2	20
Diesel Range Organics (Over C10-C28)			1000	1039		mg/Kg		104	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: 880-23613-A-1-D MS
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43837

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 F1 F2	998	2514	F1	mg/Kg		248	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	994.6		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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

Lab Sample ID: 880-23613-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43854 — **Prep Batch: 43837**

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 F1 F2	997	883.6	F2	mg/Kg		85	70 - 130	96	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	906.2		mg/Kg		91	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43825/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/14/23 03:01	1

Lab Sample ID: LCS 880-43825/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-43825/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-3823-4 MS — **Client Sample ID: SS04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	709		248	946.2		mg/Kg		96	90 - 110		

Lab Sample ID: 890-3823-4 MSD — **Client Sample ID: SS04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	709		248	942.3		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

GC VOA

Prep Batch: 43832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43832/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	5035	
890-3823-2	SS02	Total/NA	Solid	5035	
890-3823-3	SS03	Total/NA	Solid	5035	
890-3823-4	SS04	Total/NA	Solid	5035	
890-3823-5	SS05	Total/NA	Solid	5035	
890-3823-6	SS06	Total/NA	Solid	5035	
890-3823-7	SS07	Total/NA	Solid	5035	
MB 880-43835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3823-1 MS	SS01	Total/NA	Solid	5035	
890-3823-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 43866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	8021B	43835
890-3823-2	SS02	Total/NA	Solid	8021B	43835
890-3823-3	SS03	Total/NA	Solid	8021B	43835
890-3823-4	SS04	Total/NA	Solid	8021B	43835
890-3823-5	SS05	Total/NA	Solid	8021B	43835
890-3823-6	SS06	Total/NA	Solid	8021B	43835
890-3823-7	SS07	Total/NA	Solid	8021B	43835
MB 880-43832/5-B	Method Blank	Total/NA	Solid	8021B	43832
MB 880-43835/5-A	Method Blank	Total/NA	Solid	8021B	43835
LCS 880-43835/1-A	Lab Control Sample	Total/NA	Solid	8021B	43835
LCSD 880-43835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43835
890-3823-1 MS	SS01	Total/NA	Solid	8021B	43835
890-3823-1 MSD	SS01	Total/NA	Solid	8021B	43835

Analysis Batch: 44104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	Total BTEX	
890-3823-2	SS02	Total/NA	Solid	Total BTEX	
890-3823-3	SS03	Total/NA	Solid	Total BTEX	
890-3823-4	SS04	Total/NA	Solid	Total BTEX	
890-3823-5	SS05	Total/NA	Solid	Total BTEX	
890-3823-6	SS06	Total/NA	Solid	Total BTEX	
890-3823-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	8015NM Prep	
890-3823-2	SS02	Total/NA	Solid	8015NM Prep	
890-3823-3	SS03	Total/NA	Solid	8015NM Prep	
890-3823-4	SS04	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

GC Semi VOA (Continued)

Prep Batch: 43837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-5	SS05	Total/NA	Solid	8015NM Prep	
890-3823-6	SS06	Total/NA	Solid	8015NM Prep	
890-3823-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23613-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23613-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	8015B NM	43837
890-3823-2	SS02	Total/NA	Solid	8015B NM	43837
890-3823-3	SS03	Total/NA	Solid	8015B NM	43837
890-3823-4	SS04	Total/NA	Solid	8015B NM	43837
890-3823-5	SS05	Total/NA	Solid	8015B NM	43837
890-3823-6	SS06	Total/NA	Solid	8015B NM	43837
890-3823-7	SS07	Total/NA	Solid	8015B NM	43837
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015B NM	43837
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43837
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43837
880-23613-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43837
880-23613-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43837

Analysis Batch: 44030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Total/NA	Solid	8015 NM	
890-3823-2	SS02	Total/NA	Solid	8015 NM	
890-3823-3	SS03	Total/NA	Solid	8015 NM	
890-3823-4	SS04	Total/NA	Solid	8015 NM	
890-3823-5	SS05	Total/NA	Solid	8015 NM	
890-3823-6	SS06	Total/NA	Solid	8015 NM	
890-3823-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Soluble	Solid	DI Leach	
890-3823-2	SS02	Soluble	Solid	DI Leach	
890-3823-3	SS03	Soluble	Solid	DI Leach	
890-3823-4	SS04	Soluble	Solid	DI Leach	
890-3823-5	SS05	Soluble	Solid	DI Leach	
890-3823-6	SS06	Soluble	Solid	DI Leach	
890-3823-7	SS07	Soluble	Solid	DI Leach	
MB 880-43825/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43825/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43825/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3823-4 MS	SS04	Soluble	Solid	DI Leach	
890-3823-4 MSD	SS04	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

HPLC/IC

Analysis Batch: 43925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3823-1	SS01	Soluble	Solid	300.0	43825
890-3823-2	SS02	Soluble	Solid	300.0	43825
890-3823-3	SS03	Soluble	Solid	300.0	43825
890-3823-4	SS04	Soluble	Solid	300.0	43825
890-3823-5	SS05	Soluble	Solid	300.0	43825
890-3823-6	SS06	Soluble	Solid	300.0	43825
890-3823-7	SS07	Soluble	Solid	300.0	43825
MB 880-43825/1-A	Method Blank	Soluble	Solid	300.0	43825
LCS 880-43825/2-A	Lab Control Sample	Soluble	Solid	300.0	43825
LCSD 880-43825/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43825
890-3823-4 MS	SS04	Soluble	Solid	300.0	43825
890-3823-4 MSD	SS04	Soluble	Solid	300.0	43825

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS01
Date Collected: 01/10/23 11:45
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-1
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			4.96 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 00:35	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 04:17	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/10/23 11:55
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-2
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			4.99 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 00:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		5			43925	01/14/23 04:22	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/10/23 12:05
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-3
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			5.02 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 01:40	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 04:28	CH	EET MID

Client Sample ID: SS04
Date Collected: 01/10/23 12:15
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-4
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			5.02 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS04
Date Collected: 01/10/23 12:15
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-4
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			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 02:03	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 04:33	CH	EET MID

Client Sample ID: SS05
Date Collected: 01/10/23 12:25
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-5
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	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 02:25	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 04:50	CH	EET MID

Client Sample ID: SS06
Date Collected: 01/10/23 12:35
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-6
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			5.02 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 02:47	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		10			43925	01/14/23 04:55	CH	EET MID

Client Sample ID: SS07
Date Collected: 01/10/23 12:45
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-7
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			5.03 g	5 mL	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44104	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44030	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 03:09	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Client Sample ID: SS07

Date Collected: 01/10/23 12:45
Date Received: 01/11/23 10:55

Lab Sample ID: 890-3823-7

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			4.97 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 05:11	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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 PC 2

Job ID: 890-3823-1
SDG: 03C1558148

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3823-1
SDG: 03C1558148

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3823-1	SS01	Solid	01/10/23 11:45	01/11/23 10:55	0.5
890-3823-2	SS02	Solid	01/10/23 11:55	01/11/23 10:55	0.5
890-3823-3	SS03	Solid	01/10/23 12:05	01/11/23 10:55	0.5
890-3823-4	SS04	Solid	01/10/23 12:15	01/11/23 10:55	0.5
890-3823-5	SS05	Solid	01/10/23 12:25	01/11/23 10:55	0.5
890-3823-6	SS06	Solid	01/10/23 12:35	01/11/23 10:55	0.5
890-3823-7	SS07	Solid	01/10/23 12:45	01/11/23 10:55	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 Greene St
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
Phone:	989-954-0852	Email:	

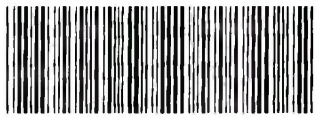
Work Order Comments

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 PC 2	Turn Around	
Project Number:	03C1558148	☑ Routine ☐ Rush	
Project Location:	Eddy Co	Due Date:	
Sampler's Name:	CB	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:	TNM005
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2

ANALYSIS REQUEST



CHL
BTX
TPH

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	Sample Comments
SS01	S	1-10	1145	½	G	1	CC
SS02			1155				108/20100
SS03			1205				
SS04			1215				
SS05			1225				INC
SS06			1235				NAPP2235646436
SS07	↓	↓	1245	↓	↓	↓	

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	Cloe Cuy	1.11.23 1055	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3823-1
SDG Number: 03C1558148

Login Number: 3823
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: 890-3823-1
SDG Number: 03C1558148

Login Number: 3823
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/12/23 10:37 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

Generated 1/16/2023 6:28:56 PM

JOB DESCRIPTION

PLU PC 2
SDG NUMBER 03C1558148

JOB NUMBER

890-3824-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

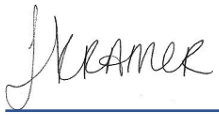
my EOL

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

Client: Ensolum
Project/Site: PLU PC 2

Laboratory Job ID: 890-3824-1
SDG: 03C1558148

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Qualifiers

GC VOA

Qualifier	Qualifier Description
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 PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Job ID: 890-3824-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3824-1

Receipt
The samples were received on 1/11/2023 10:55 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 1.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS08 (890-3824-1), SS09 (890-3824-2) and SS10 (890-3824-3).

GC VOA
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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43837 and analytical batch 880-43854 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-43837/2-A), (LCSD 880-43837/3-A) and (MB 880-43837/1-A). Evidence of matrix interferences is not obvious.

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

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 PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Client Sample ID: SS08

Date Collected: 01/10/23 13:00
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Lab Sample ID: 890-3824-1
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		01/12/23 14:58	01/14/23 14:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 14:46	1
Ethylbenzene	**0.00268**		0.00200		mg/Kg		01/12/23 14:58	01/14/23 14:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/12/23 14:58	01/14/23 14:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 14:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/12/23 14:58	01/14/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/12/23 14:58*	*01/14/23 14:46*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/12/23 14:58*	*01/14/23 14:46*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 03:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 03:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/23 15:11	01/14/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:32*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.8**		5.00		mg/Kg			01/14/23 05:17	1

Client Sample ID: SS09

Date Collected: 01/10/23 13:10
Date Received: 01/11/23 10:55
Sample Depth: 0.5

Lab Sample ID: 890-3824-2
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		01/12/23 14:58	01/14/23 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 15:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/12/23 14:58	01/14/23 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 15:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/12/23 14:58	01/14/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/12/23 14:58*	*01/14/23 15:07*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Client Sample ID: SS09

Lab Sample ID: 890-3824-2
Matrix: Solid
Date Collected: 01/10/23 13:10
Date Received: 01/11/23 10:55
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/12/23 14:58*	*01/14/23 15:07*	*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			01/16/23 17:00	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			01/16/23 16:35	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		01/12/23 15:11	01/14/23 03:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 15:11	01/14/23 03:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 15:11	01/14/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:54*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/12/23 15:11*	*01/14/23 03:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.7**		4.98	mg/Kg			01/14/23 05:22	1

Client Sample ID: SS10

Lab Sample ID: 890-3824-3
Matrix: Solid
Date Collected: 01/10/23 13:20
Date Received: 01/11/23 10:55
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		01/12/23 14:58	01/14/23 15:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 15:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 15:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/12/23 14:58	01/14/23 15:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:58	01/14/23 15:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/12/23 14:58	01/14/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/12/23 14:58*	*01/14/23 15:27*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/12/23 14:58*	*01/14/23 15:27*	*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			01/16/23 17:00	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			01/16/23 16:35	1

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Client Sample ID: SS10

Lab Sample ID: 890-3824-3

Date Collected: 01/10/23 13:20
Matrix: Solid
Date Received: 01/11/23 10:55
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	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 04:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 04:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/14/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/12/23 15:11*	*01/14/23 04:16*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/12/23 15:11*	*01/14/23 04:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.9**		4.97		mg/Kg			01/14/23 05:28	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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)
890-3823-A-1-C MS	Matrix Spike	109	105
890-3823-A-1-D MSD	Matrix Spike Duplicate	107	105
890-3824-1	SS08	130	108
890-3824-2	SS09	114	95
890-3824-3	SS10	124	95
LCS 880-43835/1-A	Lab Control Sample	104	103
LCSD 880-43835/2-A	Lab Control Sample Dup	105	102
MB 880-43832/5-B	Method Blank	109	99
MB 880-43835/5-A	Method Blank	108	99

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)
880-23613-A-1-D MS	Matrix Spike	99	80
880-23613-A-1-E MSD	Matrix Spike Duplicate	83	75
890-3824-1	SS08	99	106
890-3824-2	SS09	83	81
890-3824-3	SS10	97	94
LCS 880-43837/2-A	Lab Control Sample	138 S1+	124
LCSD 880-43837/3-A	Lab Control Sample Dup	140 S1+	130
MB 880-43837/1-A	Method Blank	186 S1+	164 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43832/5-B
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43832

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*

Lab Sample ID: MB 880-43835/5-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43835

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:58	01/14/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/12/23 14:58	01/14/23 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/12/23 14:58*	*01/14/23 11:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/12/23 14:58*	*01/14/23 11:54*	*1*

Lab Sample ID: LCS 880-43835/1-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43835

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08829		mg/Kg		88	70 - 130		
Toluene			0.100	0.08410		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08216		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1680		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08252		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-43835/2-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43835

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07938		mg/Kg		79	70 - 130	11	35

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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

Lab Sample ID: LCSD 880-43835/2-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43835

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07607		mg/Kg		76	70 - 130	10	35
Ethylbenzene			0.100	0.07394		mg/Kg		74	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1504		mg/Kg		75	70 - 130	11	35
o-Xylene			0.100	0.07576		mg/Kg		76	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-3823-A-1-C MS
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	<0.00202	U	0.100	0.09441		mg/Kg		94	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.09001		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1820		mg/Kg		91	70 - 130
o-Xylene	<0.00202	U	0.100	0.09231		mg/Kg		92	70 - 130

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

Lab Sample ID: 890-3823-A-1-D MSD
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09074		mg/Kg		92	70 - 130	15	35
Toluene	<0.00202	U	0.0990	0.08060		mg/Kg		81	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.0990	0.07674		mg/Kg		78	70 - 130	16	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1551		mg/Kg		78	70 - 130	16	35
o-Xylene	<0.00202	U	0.0990	0.07902		mg/Kg		79	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-43837/1-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43837

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		01/12/23 15:11	01/13/23 19:51	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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

Lab Sample ID: MB 880-43837/1-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43837

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		01/12/23 15:11	01/13/23 19:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 15:11	01/13/23 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*186*	*S1+*	*70 - 130*	*01/12/23 15:11*	*01/13/23 19:51*	*1*
o-Terphenyl	*164*	*S1+*	*70 - 130*	*01/12/23 15:11*	*01/13/23 19:51*	*1*

Lab Sample ID: LCS 880-43837/2-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1056		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*138*	*S1+*	*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: LCSD 880-43837/3-A
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43837

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	2	20
Diesel Range Organics (Over C10-C28)			1000	1039		mg/Kg		104	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: 880-23613-A-1-D MS
Matrix: Solid
Analysis Batch: 43854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43837

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 F1 F2	998	2514	F1	mg/Kg		248	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	994.6		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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

Lab Sample ID: 880-23613-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43854 — **Prep Batch: 43837**

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 F1 F2	997	883.6	F2	mg/Kg		85	70 - 130	96	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	906.2		mg/Kg		91	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43825/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/14/23 03:01	1

Lab Sample ID: LCS 880-43825/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-43825/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-3823-A-4-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	709		248	946.2		mg/Kg		96	90 - 110		

Lab Sample ID: 890-3823-A-4-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 43925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	709		248	942.3		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

GC VOA

Prep Batch: 43832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43832/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	5035	
890-3824-2	SS09	Total/NA	Solid	5035	
890-3824-3	SS10	Total/NA	Solid	5035	
MB 880-43835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3823-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3823-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	8021B	43835
890-3824-2	SS09	Total/NA	Solid	8021B	43835
890-3824-3	SS10	Total/NA	Solid	8021B	43835
MB 880-43832/5-B	Method Blank	Total/NA	Solid	8021B	43832
MB 880-43835/5-A	Method Blank	Total/NA	Solid	8021B	43835
LCS 880-43835/1-A	Lab Control Sample	Total/NA	Solid	8021B	43835
LCSD 880-43835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43835
890-3823-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	43835
890-3823-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43835

Analysis Batch: 44105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	Total BTEX	
890-3824-2	SS09	Total/NA	Solid	Total BTEX	
890-3824-3	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	8015NM Prep	
890-3824-2	SS09	Total/NA	Solid	8015NM Prep	
890-3824-3	SS10	Total/NA	Solid	8015NM Prep	
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23613-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23613-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	8015B NM	43837
890-3824-2	SS09	Total/NA	Solid	8015B NM	43837
890-3824-3	SS10	Total/NA	Solid	8015B NM	43837
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015B NM	43837
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43837

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

GC Semi VOA (Continued)

Analysis Batch: 43854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43837
880-23613-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43837
880-23613-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43837

Analysis Batch: 44031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Total/NA	Solid	8015 NM	
890-3824-2	SS09	Total/NA	Solid	8015 NM	
890-3824-3	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Soluble	Solid	DI Leach	
890-3824-2	SS09	Soluble	Solid	DI Leach	
890-3824-3	SS10	Soluble	Solid	DI Leach	
MB 880-43825/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43825/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43825/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3823-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3823-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3824-1	SS08	Soluble	Solid	300.0	43825
890-3824-2	SS09	Soluble	Solid	300.0	43825
890-3824-3	SS10	Soluble	Solid	300.0	43825
MB 880-43825/1-A	Method Blank	Soluble	Solid	300.0	43825
LCS 880-43825/2-A	Lab Control Sample	Soluble	Solid	300.0	43825
LCSD 880-43825/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43825
890-3823-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	43825
890-3823-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43825

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Client Sample ID: SS08

Lab Sample ID: 890-3824-1

Date Collected: 01/10/23 13:00
Matrix: Solid
Date Received: 01/11/23 10:55

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	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44105	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44031	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 03:32	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 05:17	CH	EET MID

Client Sample ID: SS09

Lab Sample ID: 890-3824-2

Date Collected: 01/10/23 13:10
Matrix: Solid
Date Received: 01/11/23 10:55

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	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44105	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44031	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 03:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 05:22	CH	EET MID

Client Sample ID: SS10

Lab Sample ID: 890-3824-3

Date Collected: 01/10/23 13:20
Matrix: Solid
Date Received: 01/11/23 10:55

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	43835	01/12/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44105	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44031	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 04:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43825	01/12/23 14:05	KS	EET MID
Soluble	Analysis	300.0		1			43925	01/14/23 05:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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 PC 2

Job ID: 890-3824-1
SDG: 03C1558148

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU PC 2

Job ID: 890-3824-1
SDG: 03C1558148

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3824-1	SS08	Solid	01/10/23 13:00	01/11/23 10:55	0.5
890-3824-2	SS09	Solid	01/10/23 13:10	01/11/23 10:55	0.5
890-3824-3	SS10	Solid	01/10/23 13:20	01/11/23 10:55	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 Greene St
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
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 PC 2	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558148	Due Date:	
Project Location:	Eddy Co	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	CB		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2

ANALYSIS REQUEST

Parameters: CHL, BTX, TPH

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	Sample Comments
SS08	S	1-10	1300	½	G	1	CC
SS09	S	1-10	1310	½	G	1	10812001
SS10	S	1-10	1320	½	G	1	
							INC
							NAPP2235646436

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		1.11.23 1055	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3824-1
SDG Number: 03C1558148

Login Number: 3824
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: 890-3824-1
SDG Number: 03C1558148

Login Number: 3824
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/12/23 10:37 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

Generated 2/13/2023 6:39:26 PM

JOB DESCRIPTION

PLU C2 Recycle Facility
SDG NUMBER 03C1558148

JOB NUMBER

890-4026-1

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
2/13/2023 6:39:26 PM

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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4026-1
Project/Site: PLU C2 Recycle Facility SDG: 03C1558148

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Job ID: 890-4026-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4026-1

Receipt
The samples were received on 2/3/2023 11:50 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 3.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4026-1), PH02 (890-4026-2), PH03 (890-4026-3), PH03A (890-4026-4), PH04 (890-4026-5), PH05 (890-4026-6), PH06 (890-4026-7) and PH07 (890-4026-8).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03A (890-4026-4) and PH07 (890-4026-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45800 and analytical batch 880-46050 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4017-A-2-B), (890-4017-A-2-C MS) and (890-4017-A-2-D 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: PH01 (890-4026-1) and PH02 (890-4026-2). 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 880-45800 and analytical batch 880-46050 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 880-45802 and analytical batch 880-45951 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4031-A-21-D), (890-4031-A-21-E MS) and (890-4031-A-21-F 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: PH03 (890-4026-3), PH03A (890-4026-4), PH04 (890-4026-5), PH05 (890-4026-6), PH06 (890-4026-7) and PH07 (890-4026-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45661 and analytical batch 880-45709 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH01

Lab Sample ID: 890-4026-1
Matrix: Solid
Date Collected: 02/02/23 09:15
Date Received: 02/03/23 11:50
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:54	02/10/23 22:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:54	02/10/23 22:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:54	02/10/23 22:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 10:54	02/10/23 22:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:54	02/10/23 22:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 10:54	02/10/23 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/10/23 10:54*	*02/10/23 22:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/10/23 10:54*	*02/10/23 22:15*	*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			02/13/23 18:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/13/23 14:26	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	<49.7	U	49.7		mg/Kg		02/08/23 13:01	02/11/23 19:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		02/08/23 13:01	02/11/23 19:24	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/08/23 13:01	02/11/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*45*	*S1-*	*70 - 130*	*02/08/23 13:01*	*02/11/23 19:24*	*1*
o-Terphenyl	*52*	*S1-*	*70 - 130*	*02/08/23 13:01*	*02/11/23 19:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		4.97		mg/Kg			02/07/23 17:25	1

Client Sample ID: PH02

Lab Sample ID: 890-4026-2
Matrix: Solid
Date Collected: 02/02/23 09:45
Date Received: 02/03/23 11:50
Sample Depth: 3'

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		02/10/23 10:54	02/10/23 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 22:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/10/23 10:54	02/10/23 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 22:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/10/23 10:54	02/10/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/10/23 10:54*	*02/10/23 22:42*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH02

Date Collected: 02/02/23 09:45
Date Received: 02/03/23 11:50
Sample Depth: 3'

Lab Sample ID: 890-4026-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 10:54*	*02/10/23 22:42*	*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			02/13/23 18:49	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			02/13/23 14:26	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		02/08/23 13:01	02/11/23 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0	mg/Kg		02/08/23 13:01	02/11/23 19:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 13:01	02/11/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*53*	*S1-*	*70 - 130*	*02/08/23 13:01*	*02/11/23 19:45*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*02/08/23 13:01*	*02/11/23 19:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		5.03	mg/Kg			02/07/23 17:44	1

Client Sample ID: PH03

Date Collected: 02/02/23 10:15
Date Received: 02/03/23 11:50
Sample Depth: 1'

Lab Sample ID: 890-4026-3
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		02/10/23 10:54	02/10/23 23:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/10/23 23:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/10/23 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/10/23 23:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/10/23 23:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/10/23 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/10/23 10:54*	*02/10/23 23:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/10/23 10:54*	*02/10/23 23:08*	*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			02/13/23 18:49	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			02/13/23 17:08	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH03

Date Collected: 02/02/23 10:15
Date Received: 02/03/23 11:50
Sample Depth: 1'

Lab Sample ID: 890-4026-3
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	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*51*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 15:49*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 15:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**930**		5.00		mg/Kg			02/07/23 17:50	1

Client Sample ID: PH03A

Date Collected: 02/02/23 10:45
Date Received: 02/03/23 11:50
Sample Depth: 3'

Lab Sample ID: 890-4026-4
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		02/10/23 10:54	02/10/23 23:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/10/23 23:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/10/23 23:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/10/23 23:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/10/23 23:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/10/23 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*02/10/23 10:54*	*02/10/23 23:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 10:54*	*02/10/23 23:35*	*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			02/13/23 18:49	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 16:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:11*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH03A

Lab Sample ID: 890-4026-4
Matrix: Solid

Date Collected: 02/02/23 10:45
Date Received: 02/03/23 11:50
Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.98		mg/Kg			02/07/23 17:56	1

Client Sample ID: PH04

Lab Sample ID: 890-4026-5
Matrix: Solid

Date Collected: 02/02/23 11:15
Date Received: 02/03/23 11:50
Sample Depth: 2'

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		02/10/23 10:54	02/11/23 01:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/11/23 01:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/11/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/10/23 10:54*	*02/11/23 01:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 10:54*	*02/11/23 01:21*	*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			02/13/23 18:49	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 16:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*52*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:32*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.97		mg/Kg			02/07/23 18:02	1

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH05

Date Collected: 02/02/23 11:45
Date Received: 02/03/23 11:50
Sample Depth: 1'

Lab Sample ID: 890-4026-6
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		02/10/23 10:54	02/11/23 01:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/11/23 01:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:54	02/11/23 01:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:54	02/11/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/10/23 10:54*	*02/11/23 01:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/10/23 10:54*	*02/11/23 01:48*	*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			02/13/23 18:49	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 16:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*51*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:54*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.46**		5.02		mg/Kg			02/07/23 18:08	1

Client Sample ID: PH06

Date Collected: 02/02/23 12:15
Date Received: 02/03/23 11:50
Sample Depth: 1'

Lab Sample ID: 890-4026-7
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		02/10/23 10:54	02/11/23 02:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/11/23 02:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/11/23 02:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 10:54	02/11/23 02:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/11/23 02:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 10:54	02/11/23 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/10/23 10:54*	*02/11/23 02:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH06

Lab Sample ID: 890-4026-7
Matrix: Solid
Date Collected: 02/02/23 12:15
Date Received: 02/03/23 11:50
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/10/23 10:54*	*02/11/23 02:15*	*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			02/13/23 18:49	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 17:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 17:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*55*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 17:16*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 17:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.4**		5.01	mg/Kg			02/07/23 18:15	1

Client Sample ID: PH07

Lab Sample ID: 890-4026-8
Matrix: Solid
Date Collected: 02/02/23 12:45
Date Received: 02/03/23 11:50
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		02/10/23 10:54	02/11/23 02:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 02:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 02:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/10/23 10:54	02/11/23 02:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 02:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/10/23 10:54	02/11/23 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/10/23 10:54*	*02/11/23 02:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/10/23 10:54*	*02/11/23 02:42*	*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			02/13/23 18:49	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			02/13/23 17:08	1

Client Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH07

Date Collected: 02/02/23 12:45
Date Received: 02/03/23 11:50
Sample Depth: 1'

Lab Sample ID: 890-4026-8

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		02/08/23 13:10	02/10/23 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 17:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*53*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 17:38*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.1**		4.98		mg/Kg			02/07/23 18:21	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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)
890-4024-A-1-D MS	Matrix Spike	116	106
890-4024-A-1-E MSD	Matrix Spike Duplicate	112	98
890-4026-1	PH01	128	97
890-4026-2	PH02	120	93
890-4026-3	PH03	130	92
890-4026-4	PH03A	138 S1+	93
890-4026-5	PH04	120	93
890-4026-6	PH05	130	91
890-4026-7	PH06	127	90
890-4026-8	PH07	135 S1+	86
LCS 880-45983/1-A	Lab Control Sample	123	91
LCSD 880-45983/2-A	Lab Control Sample Dup	113	105
MB 880-45983/5-A	Method Blank	83	86

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4017-A-2-C MS	Matrix Spike	58 S1-	54 S1-
890-4017-A-2-D MSD	Matrix Spike Duplicate	54 S1-	47 S1-
890-4026-1	PH01	45 S1-	52 S1-
890-4026-2	PH02	53 S1-	59 S1-
890-4026-3	PH03	51 S1-	57 S1-
890-4026-4	PH03A	56 S1-	63 S1-
890-4026-5	PH04	52 S1-	60 S1-
890-4026-6	PH05	51 S1-	59 S1-
890-4026-7	PH06	55 S1-	63 S1-
890-4026-8	PH07	53 S1-	59 S1-
890-4031-A-21-E MS	Matrix Spike	55 S1-	54 S1-
890-4031-A-21-F MSD	Matrix Spike Duplicate	56 S1-	54 S1-
LCS 880-45800/2-A	Lab Control Sample	78	79
LCS 880-45802/2-A	Lab Control Sample	103	112
LCSD 880-45800/3-A	Lab Control Sample Dup	93	96
LCSD 880-45802/3-A	Lab Control Sample Dup	100	111
MB 880-45800/1-A	Method Blank	67 S1-	72
MB 880-45802/1-A	Method Blank	69 S1-	81

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45983/5-A
Matrix: Solid
Analysis Batch: 45956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45983

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 10:54	02/10/23 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*02/10/23 10:54*	*02/10/23 19:11*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/10/23 10:54*	*02/10/23 19:11*	*1*

Lab Sample ID: LCS 880-45983/1-A
Matrix: Solid
Analysis Batch: 45956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45983

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1215		mg/Kg		122	70 - 130		
Toluene			0.100	0.1250		mg/Kg		125	70 - 130		
Ethylbenzene			0.100	0.1261		mg/Kg		126	70 - 130		
m-Xylene & p-Xylene			0.200	0.2452		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1222		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-45983/2-A
Matrix: Solid
Analysis Batch: 45956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45983

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1265		mg/Kg		126	70 - 130	4	35
Toluene			0.100	0.1151		mg/Kg		115	70 - 130	8	35
Ethylbenzene			0.100	0.1152		mg/Kg		115	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2252		mg/Kg		113	70 - 130	8	35
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-4024-A-1-D MS
Matrix: Solid
Analysis Batch: 45956

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.1152		mg/Kg		115	70 - 130		
Toluene	<0.00202	U	0.100	0.1059		mg/Kg		105	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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

Lab Sample ID: 890-4024-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 45956 — **Prep Batch: 45983**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2003		mg/Kg		100	70 - 130
o-Xylene	<0.00202	U	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-4024-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 45956 — **Prep Batch: 45983**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.1039		mg/Kg		105	70 - 130	10	35
Toluene	<0.00202	U	0.0990	0.09346		mg/Kg		94	70 - 130	12	35
Ethylbenzene	<0.00202	U	0.0990	0.09187		mg/Kg		93	70 - 130	12	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1811		mg/Kg		91	70 - 130	10	35
o-Xylene	<0.00202	U	0.0990	0.09097		mg/Kg		92	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-45800/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46050 — **Prep Batch: 45800**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:01	02/11/23 09:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:01	02/11/23 09:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:01	02/11/23 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*02/08/23 13:01*	*02/11/23 09:08*	*1*
o-Terphenyl	*72*		*70 - 130*	*02/08/23 13:01*	*02/11/23 09:08*	*1*

Lab Sample ID: LCS 880-45800/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46050 — **Prep Batch: 45800**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			998	881.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)			998	670.6	*-	mg/Kg		67	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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

Lab Sample ID: LCS 880-45800/2-A
Matrix: Solid
Analysis Batch: 46050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45800

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-45800/3-A
Matrix: Solid
Analysis Batch: 46050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	840.2		mg/Kg		84	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	817.7		mg/Kg		82	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-4017-A-2-C MS
Matrix: Solid
Analysis Batch: 46050

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45800

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	999	969.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *-	999	948.8		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	58	S1-	70 - 130
o-Terphenyl	54	S1-	70 - 130

Lab Sample ID: 890-4017-A-2-D MSD
Matrix: Solid
Analysis Batch: 46050

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45800

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	808.5		mg/Kg		78	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<50.0	U *-	998	816.6		mg/Kg		79	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	54	S1-	70 - 130
o-Terphenyl	47	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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

Lab Sample ID: MB 880-45802/1-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45802

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		02/08/23 13:10	02/10/23 08:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 08:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 08:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/08/23 13:10*	*02/10/23 08:07*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/08/23 13:10*	*02/10/23 08:07*	*1*

Lab Sample ID: LCS 880-45802/2-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45802

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	882.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	897.1		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-45802/3-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45802

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.3		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	938.1		mg/Kg		94	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-4031-A-21-E MS
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45802

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	999	857.8		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	872.8		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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

Lab Sample ID: 890-4031-A-21-E MS
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45802

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	55	S1-	70 - 130
o-Terphenyl	54	S1-	70 - 130

Lab Sample ID: 890-4031-A-21-F MSD
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45802

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	869.4		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	914.2		mg/Kg		89	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	56	S1-	70 - 130
o-Terphenyl	54	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45661/1-A
Matrix: Solid
Analysis Batch: 45709

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			02/07/23 14:51	1

Lab Sample ID: LCS 880-45661/2-A
Matrix: Solid
Analysis Batch: 45709

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.3		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-45661/3-A
Matrix: Solid
Analysis Batch: 45709

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	236.3		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4024-A-5-B MS
Matrix: Solid
Analysis Batch: 45709

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	215	F1	248	433.0	F1	mg/Kg		88	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4024-A-5-C MSD
Matrix: Solid
Analysis Batch: 45709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	215	F1	248	434.5	F1	mg/Kg		89	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

GC VOA

Analysis Batch: 45956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	8021B	45983
890-4026-2	PH02	Total/NA	Solid	8021B	45983
890-4026-3	PH03	Total/NA	Solid	8021B	45983
890-4026-4	PH03A	Total/NA	Solid	8021B	45983
890-4026-5	PH04	Total/NA	Solid	8021B	45983
890-4026-6	PH05	Total/NA	Solid	8021B	45983
890-4026-7	PH06	Total/NA	Solid	8021B	45983
890-4026-8	PH07	Total/NA	Solid	8021B	45983
MB 880-45983/5-A	Method Blank	Total/NA	Solid	8021B	45983
LCS 880-45983/1-A	Lab Control Sample	Total/NA	Solid	8021B	45983
LCSD 880-45983/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45983
890-4024-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45983
890-4024-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45983

Prep Batch: 45983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	5035	
890-4026-2	PH02	Total/NA	Solid	5035	
890-4026-3	PH03	Total/NA	Solid	5035	
890-4026-4	PH03A	Total/NA	Solid	5035	
890-4026-5	PH04	Total/NA	Solid	5035	
890-4026-6	PH05	Total/NA	Solid	5035	
890-4026-7	PH06	Total/NA	Solid	5035	
890-4026-8	PH07	Total/NA	Solid	5035	
MB 880-45983/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45983/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45983/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4024-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4024-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	Total BTEX	
890-4026-2	PH02	Total/NA	Solid	Total BTEX	
890-4026-3	PH03	Total/NA	Solid	Total BTEX	
890-4026-4	PH03A	Total/NA	Solid	Total BTEX	
890-4026-5	PH04	Total/NA	Solid	Total BTEX	
890-4026-6	PH05	Total/NA	Solid	Total BTEX	
890-4026-7	PH06	Total/NA	Solid	Total BTEX	
890-4026-8	PH07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	8015NM Prep	
890-4026-2	PH02	Total/NA	Solid	8015NM Prep	
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

GC Semi VOA (Continued)

Prep Batch: 45800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 45802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-3	PH03	Total/NA	Solid	8015NM Prep	
890-4026-4	PH03A	Total/NA	Solid	8015NM Prep	
890-4026-5	PH04	Total/NA	Solid	8015NM Prep	
890-4026-6	PH05	Total/NA	Solid	8015NM Prep	
890-4026-7	PH06	Total/NA	Solid	8015NM Prep	
890-4026-8	PH07	Total/NA	Solid	8015NM Prep	
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4031-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4031-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-3	PH03	Total/NA	Solid	8015B NM	45802
890-4026-4	PH03A	Total/NA	Solid	8015B NM	45802
890-4026-5	PH04	Total/NA	Solid	8015B NM	45802
890-4026-6	PH05	Total/NA	Solid	8015B NM	45802
890-4026-7	PH06	Total/NA	Solid	8015B NM	45802
890-4026-8	PH07	Total/NA	Solid	8015B NM	45802
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015B NM	45802
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45802
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45802
890-4031-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45802
890-4031-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45802

Analysis Batch: 46050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	8015B NM	45800
890-4026-2	PH02	Total/NA	Solid	8015B NM	45800
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015B NM	45800
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45800
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45800
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	45800
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45800

Analysis Batch: 46168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Total/NA	Solid	8015 NM	
890-4026-2	PH02	Total/NA	Solid	8015 NM	
890-4026-3	PH03	Total/NA	Solid	8015 NM	
890-4026-4	PH03A	Total/NA	Solid	8015 NM	
890-4026-5	PH04	Total/NA	Solid	8015 NM	
890-4026-6	PH05	Total/NA	Solid	8015 NM	
890-4026-7	PH06	Total/NA	Solid	8015 NM	
890-4026-8	PH07	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

HPLC/IC

Leach Batch: 45661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Soluble	Solid	DI Leach	
890-4026-2	PH02	Soluble	Solid	DI Leach	
890-4026-3	PH03	Soluble	Solid	DI Leach	
890-4026-4	PH03A	Soluble	Solid	DI Leach	
890-4026-5	PH04	Soluble	Solid	DI Leach	
890-4026-6	PH05	Soluble	Solid	DI Leach	
890-4026-7	PH06	Soluble	Solid	DI Leach	
890-4026-8	PH07	Soluble	Solid	DI Leach	
MB 880-45661/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45661/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45661/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4024-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4024-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4026-1	PH01	Soluble	Solid	300.0	45661
890-4026-2	PH02	Soluble	Solid	300.0	45661
890-4026-3	PH03	Soluble	Solid	300.0	45661
890-4026-4	PH03A	Soluble	Solid	300.0	45661
890-4026-5	PH04	Soluble	Solid	300.0	45661
890-4026-6	PH05	Soluble	Solid	300.0	45661
890-4026-7	PH06	Soluble	Solid	300.0	45661
890-4026-8	PH07	Soluble	Solid	300.0	45661
MB 880-45661/1-A	Method Blank	Soluble	Solid	300.0	45661
LCS 880-45661/2-A	Lab Control Sample	Soluble	Solid	300.0	45661
LCSD 880-45661/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45661
890-4024-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	45661
890-4024-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45661

Lab Chronicle

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH01

Lab Sample ID: 890-4026-1
Matrix: Solid
Date Collected: 02/02/23 09:15
Date Received: 02/03/23 11:50

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	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/10/23 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	45800	02/08/23 13:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46050	02/11/23 19:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 17:25	CH	EET MID

Client Sample ID: PH02

Lab Sample ID: 890-4026-2
Matrix: Solid
Date Collected: 02/02/23 09:45
Date Received: 02/03/23 11:50

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	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/10/23 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45800	02/08/23 13:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46050	02/11/23 19:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 17:44	CH	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-4026-3
Matrix: Solid
Date Collected: 02/02/23 10:15
Date Received: 02/03/23 11:50

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	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/10/23 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 15:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 17:50	CH	EET MID

Client Sample ID: PH03A

Lab Sample ID: 890-4026-4
Matrix: Solid
Date Collected: 02/02/23 10:45
Date Received: 02/03/23 11:50

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	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/10/23 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH03A
Date Collected: 02/02/23 10:45
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-4
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			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 16:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 17:56	CH	EET MID

Client Sample ID: PH04
Date Collected: 02/02/23 11:15
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-5
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			5.02 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 16:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 18:02	CH	EET MID

Client Sample ID: PH05
Date Collected: 02/02/23 11:45
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-6
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			5.03 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 16:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 18:08	CH	EET MID

Client Sample ID: PH06
Date Collected: 02/02/23 12:15
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-7
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			5.01 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 02:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 17:16	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Client Sample ID: PH06

Date Collected: 02/02/23 12:15
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-7

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			4.99 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 18:15	CH	EET MID

Client Sample ID: PH07

Date Collected: 02/02/23 12:45
Date Received: 02/03/23 11:50

Lab Sample ID: 890-4026-8

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			4.97 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 02:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46227	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			46168	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45661	02/07/23 09:24	KS	EET MID
Soluble	Analysis	300.0		1			45709	02/07/23 18:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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 C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

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 C2 Recycle Facility

Job ID: 890-4026-1
SDG: 03C1558148

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4026-1	PH01	Solid	02/02/23 09:15	02/03/23 11:50	2'
890-4026-2	PH02	Solid	02/02/23 09:45	02/03/23 11:50	3'
890-4026-3	PH03	Solid	02/02/23 10:15	02/03/23 11:50	1'
890-4026-4	PH03A	Solid	02/02/23 10:45	02/03/23 11:50	3'
890-4026-5	PH04	Solid	02/02/23 11:15	02/03/23 11:50	2'
890-4026-6	PH05	Solid	02/02/23 11:45	02/03/23 11:50	1'
890-4026-7	PH06	Solid	02/02/23 12:15	02/03/23 11:50	1'
890-4026-8	PH07	Solid	02/02/23 12:45	02/03/23 11:50	1'

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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 _____ of _____

Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
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 C2 Recycle Facility	Turn Around	
Project Number:	03C1558148	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	CB	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:	THM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

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: CHL	BTX	TPH	Sample Comments
PH01	S	2-2-23	0915	2'	G	1		✓	✓	✓	CC 02/28/2023
PH02			0945	3'				✓	✓	✓	
PH03			1015	1'				✓	✓	✓	
PH03A			1045	3'				✓	✓	✓	
PH04			1115	2'				✓	✓	✓	Incident ID nAPP2235848436
PH05			1145	1'				✓	✓	✓	
PH06			1215	1'				✓	✓	✓	
PH07			1245	1				✓	✓	✓	

890-4026 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

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			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4026-1
SDG Number: 03C1558148

Login Number: 4026
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: 890-4026-1
SDG Number: 03C1558148

Login Number: 4026
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/06/23 08:40 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, January 26, 2023 9:17 AM
To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: DelawareSpills /SM; Tacoma Morrissey
Subject: XTO - Sampling Notification (Week of 1/30/23 - 2/3/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Jan 30, 2023.

- PLU 27 BD 163H / nAPP2226337852
- PLU 16 TWR 126H / nAPP2233339417
- Tiger Compressor Station / nAPP2235638568
- PLU C 2 Recycle Facility / nAPP2235646436

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 198114

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 198114
	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 #NAPP2235646436 PLUC 2 RECYCLE FACILITY, thank you. This closure is approved.	7/27/2023