Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2202534347
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 04/15/2022

Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: Robert Hamlet Date: 5/18/2022

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Robert Hamlet Date: 5/18/2022

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	NAPP2202534347
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2202534347
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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Printed Name: _____ Title: _____

Signature: Adrian Bates Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 2//3/2022

NAPP2202534347

Location:	**PLU 158 Battery**	
Spill Date:	**1/15/2022**	
Area 1		
Approximate Area =	280.73	cu.ft.
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	50.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**50.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**50.00**	**bbls**

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

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

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 74950
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/3/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2202534347
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	NAPP2202534347
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 04/15/2022

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2202534347
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Bakes Date: 04/15/2022

Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

ENSOLUM

April 15, 2022

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

Re: Deferral Request
Poker Lake Unit 158
Incident Number NAPP2202534347
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Deferral Request to document site assessment and soil sampling activities at the Poker Lake Unit 158 (Site) in Unit A, Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2202534347 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.23763° N, 103.91436°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On January 15, 2022, a valve and seal on the transfer pump malfunctioned, resulting in the release of approximately 50 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 50 bbls of released produced water were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on January 18, 2022, and submitted a Release Notification Form C-141 (Form C-141) on January 25, 2022. The release was assigned Incident Number NAPP2202534347.

SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On May 14, 2021, a soil boring (C-4526) was drilled nearly 0.5 miles of the Site utilizing a track-mounted hollow-stem auger rig. Soil boring C-4526 was drilled to a depth of 105 feet bgs. The location of the borehole is approximately 2,930 feet northwest of the release area and is depicted on Figure 1. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activites. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 0.68 miles southeast 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). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

On March 3, 2022 and March 30, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct site assessment activities. One borehole (BH01) was advanced via hand auger near the location of the tear in the liner to assess the vertical extent of impacted soil. Delineation soil samples were collected from borehole BH01 at depths ranging from 1-foot to 6 feet bgs. Four additional potholes (PH01 through PH04) were advanced via backhoe around the lined containment to confirm the lateral extent of the release. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 5 feet bgs. Soil from the borehole and potholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole and potholes were documented on lithologic/soil sampling logs, which are included as Appendix B. The borehole and potholes were backfilled with the soil removed and XTO repaired the tear in the liner. The delineation soil sample locations are depicted on Figure 2. Photographic documentation is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from borehole BH01, indicated that TPH and/or TPH-DRO/TPH-GRO concentrations exceeded the Closure Criteria at depths ranging from 1-foot to 5 feet bgs, directly beneath the tear in the liner. Subsequent delineation sample BH01D, collected at 6 feet bgs, indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04, collected at depths ranging from 1-foot to 5 feet bgs around the lined containment, indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. The impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath the liner is delineated vertically by delineation soil sample BH01D collected at 6 feet bgs and laterally by delineation soil samples from potholes PH01 through PH04. A maximum of 990 cubic yards of TPH impacted soil remains in place beneath the liner assuming a maximum 6-foot depth based on the delineation soil samples listed above, that were compliant with the Closure Criteria.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by XTO and will restrict future vertical migration of residual impacts.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2202534347 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist

Aimee Cole
Senior Managing Scientist

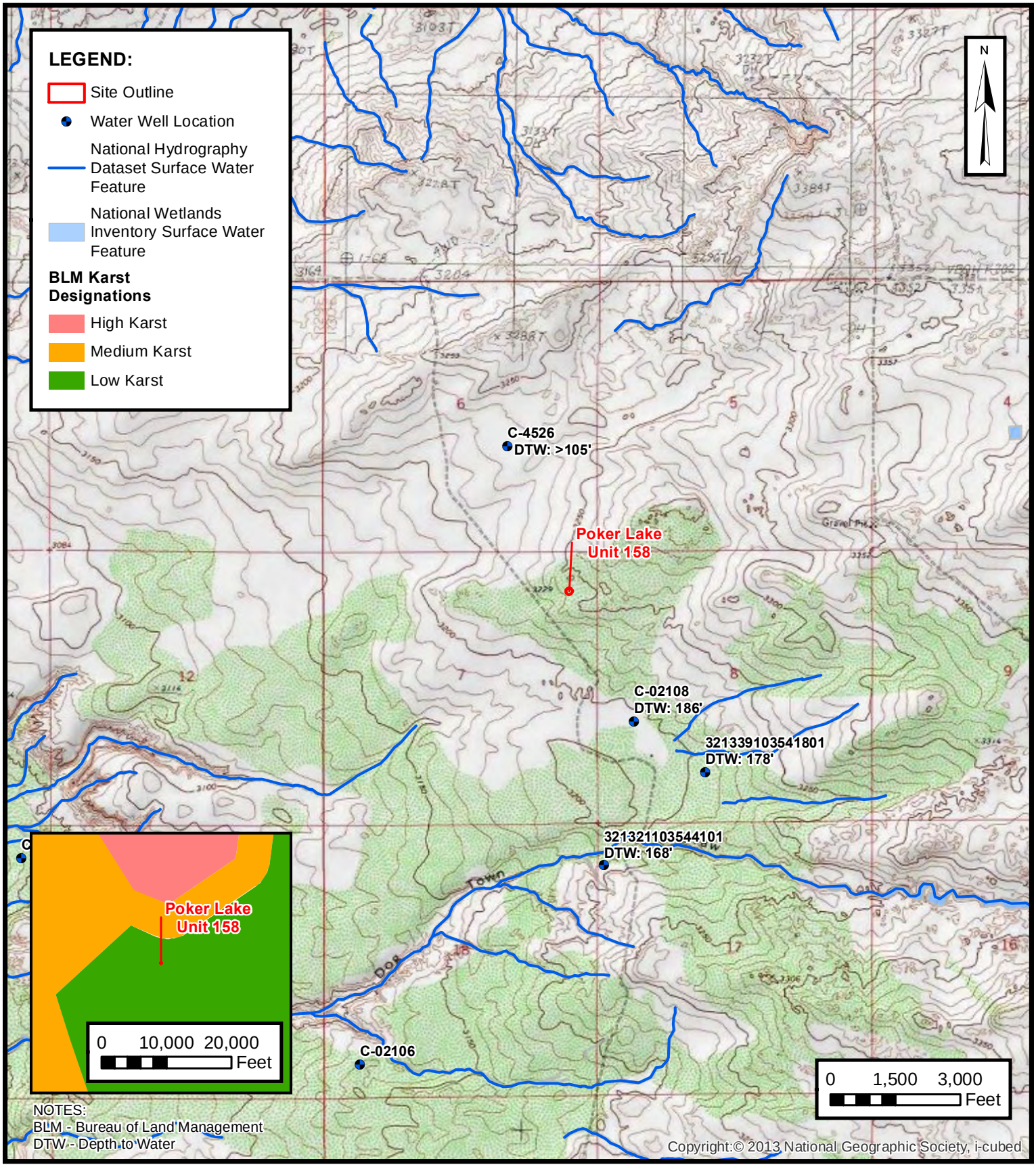
cc: Adrian Baker, XTO
Bureau of Land Management

Appendices:

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

ENSOLUM

FIGURES

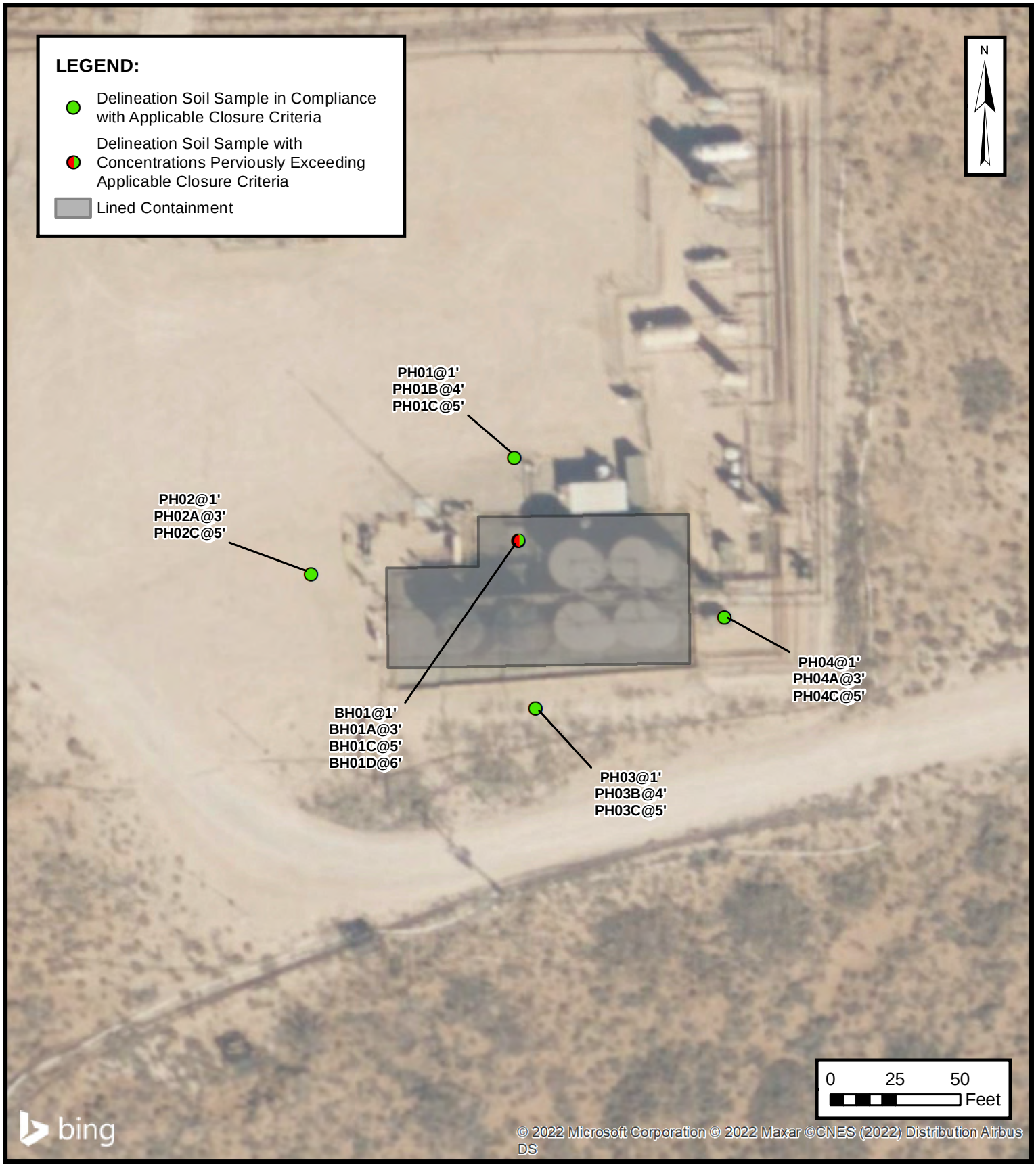


ENSOLUM
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
POKER LAKE UNIT 158
Incident Number: NAPP2202534347
Unit A, Sec 07, T24S, R30E
Eddy County, New Mexico

FIGURE
1



ENSOLUM
Environmental & Hydrogeologic Consultants

DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT 158
Incident Number: NAPP2202534347
Unit A, Sec 07, T24S, R30E
Eddy County, New Mexico

FIGURE
2

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
XTO Energy, Inc. - Poker Lake Unit 158
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results										
BH01	03/03/2022	1	<0.00200	0.0372	<49.8	2,870	<49.8	**2,870**	**2,870**	479
BH01A	03/03/2022	3	<0.00199	0.0175	78.7	4,900	<50.0	**4,980**	**4,980**	1,240
BH01C	03/03/2022	5	<0.00199	<0.00398	<50.0	2,030	<50.0	**2,030**	2,030	2,670
BH01D	03/03/2022	6	<0.00199	<0.00398	<49.9	78.6	<49.9	78.6	78.6	3,120
PH01	03/30/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	23.1
PH01B	03/30/2022	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	748
PH01C	03/30/2022	5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	172
PH02	03/30/2022	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	117
PH02A	03/30/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	218
PH02C	03/30/2022	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	60.0
PH03	03/30/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
PH03B	03/30/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	666
PH03C	03/30/2022	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	278
PH04	03/30/2022	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
PH04A	03/30/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
PH04C	03/30/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria for Soils Impacted by a Release

ENSOLUM

APPENDIX A

Referenced Well Records

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

06/09/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4526 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4526 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (MW-1)	n/a	C-4526

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

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

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	14'	42.15"	N
	LONGITUDE	103°	55'	6.20"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

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

NW NE Sec. 06 T24S R30E

2. DRILLING & CASING INFORMATION

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

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
05/14/2021	05/14/2021	temporary well material	105	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

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

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	105	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	SAND, poorly graded, fine-very grained, Reddish-brown, dry	Y ✓ N	
4	12	8	CALICHE, poorly-mod. consolidated, tan-off white, dry	Y ✓ N	
12	19	7	SAND, poorly graded, fine-very grained, some caliche gravel, Tan ,dry	Y ✓ N	
19	24	5	SAND, poorly graded, fine-very grained, some caliche gravel, Light- Brown, dry	Y ✓ N	
24	72	48	SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N	
72	92	20	SAND, poorly graded, fine-very grained, some silt, Reddish Brown, moist	Y ✓ N	
92	102	10	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N	
102	105	3	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, dry	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

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

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

Shane Eldridge, Carmelo Trevino, Cameron Pruitt

6. SIGNATURE

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

Jack Atkins — Jackie D. Atkins — 06/09/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

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

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4526-POD1

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

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

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

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

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

4) Date well plugging began: 06/08/2021 Date well plugging concluded: 06/08/2021

5) GPS Well Location: Latitude: 32 deg, 14 min, 42.15 sec
Longitude: 103 deg, 55 min, 6.20 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: weighted tape

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

8) Date well plugging plan of operations was approved by the State Engineer: 04/12/2021

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

Version: September 8, 2009
Page 1 of 2

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

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15.6 gallons	15.9 gallons	Augers	
	10'-105' Drill Cuttings	Approx. 151 gallons	151 gallons	Boring	

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

III. SIGNATURE:

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

Jack Atkins

Signature of Well Driller

06/09/2021

Date

Version: September 8, 2009
Page 2 of 2

2021-06-07_C-4526_POD1_OSE_Well Record and Log_155-forsign

Final Audit Report 2021-06-09

Created:	2021-06-09
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAARqNIK9bZ1aR8TqT_nRoFVSc9LoFFimkY

"2021-06-07_C-4526_POD1_OSE_Well Record and Log_155-for sign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2021-06-09 - 5:43:46 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-06-09 - 5:44:36 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2021-06-09 - 6:44:57 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-06-09 - 6:45:44 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2021-06-09 - 6:45:44 PM GMT

ENSOLUM

APPENDIX B

Lithologic / Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 03/03/2022
	Site Name: Poker Lake Unit 158	
	Incident Number: NAPP2202534347	
	Job Number: 03C1558002	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: BB	Method: Hand Auger
Coordinates: 32.237342, -103.914117	Hole Diameter: 3.5"	Total Depth: 9'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-1', CALICHE, moist, tan-light brown, unconsolidated, strong HC odor, no stain, fill.
M	828	271	Y	BH01	1	1	SP	1'-9', SAND, moist, brown, poorly graded, fine grain, strong HC odor with gray staining.
M	1,338	148	Y			2	SP	2'-9', no stain.
M	1,601	153	Y	BH01A	3	3	SP	
M	2,273	60.9	N	BH01B	4	4	SP	4'-5', mild HC odor.
M	3,164	22.7	N	BH01C	5	5	SP	
M	3,438	4.6	N	BH01D	6	6	SP	6'-9', no odor.
M	2,738	2.7	N			7	SP	
M	3,438	2.8	N			8	SP	
M	2,738	2.5	N	BH01E	9	9	SP	TD @ 9' bgs, Auger Refusal from caliche.

TD @ 9 feet bgs

ENSOLUM

	Sample Name: PH01	Date: 03/30/2022
	Site Name: Poker Lake Unit 158	
	Incident Number: NAPP2202534347	
	Job Number: 03C1558002	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: BB	Method: Hydrovac
Coordinates: 32.237418, -103.914106	Hole Diameter: N/A	Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-1', CALICHE, moist, tan-light brown, unconsolidated, strong HC odor, no stain, fill.
M	392	8.5	Y	PH01	1	1	SP	1'-9', SAND, moist, brown, poorly graded, fine grain, strong HC odor with gray staining.
M	442	0.4	Y			2	SP	2'-9', no stain.
M	560	0.4	Y	PH01A	3	3	SP	
M	392	0.1	N	PH01B	4	4	SP	4'-5', mild HC odor.
M	392	0.0	N	PH01C	5	5	SP	
M	442	0.0	N	PH01D	6	6	SP	6', no odor.

TD @ 6 feet bgs

ENSOLUM	Sample Name: PH02	Date: 03/30/2022
	Site Name: Poker Lake Unit 158	
	Incident Number: NAPP2202534347	
	Job Number: 03C1558002	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: BB	Method: Hydrovac
Coordinates: 32.237314, -103.914320	Hole Diameter: N/A	Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-1', CALICHE, moist, tan-light brown, unconsolidated, strong HC odor, no stain, fill.
M	212	0.7	Y	PH02	1	1	SP	1'-9', SAND, moist, brown, poorly graded, fine grain, strong HC odor with gray staining.
M	296	0.8	Y			2	SP	2'-9', no stain.
M	296	0.1	Y	PH02A	3	3	SP	
M	<129	0.2	N	PH02B	4	4	SP	4'-5', mild HC odor.
M	252	0.3	N	PH02C	5	5	SP	
M	252	0.2	N	PH02D	6	6	SP	6', no odor.

TD @ 6 feet bgs

ENSOLUM	Sample Name: PH03	Date: 03/30/2022
	Site Name: Poker Lake Unit 158	
	Incident Number: NAPP2202534347	
	Job Number: 03C1558002	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: BB	Method: Hydrovac
Coordinates: 32.237194, -103.914084	Hole Diameter: N/A	Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-1', CALICHE, moist, tan-light brown, unconsolidated, strong HC odor, no stain, fill.
M	<124	2	Y	PH03	1	1	SP	1'-9', SAND, moist, brown, poorly graded, fine grain, strong HC odor with gray staining.
M	442	0.8	Y			2	SP	2'-9', no stain.
M	442	0.8	Y	PH03A	3	3	SP	
M	560	0.9	N	PH03B	4	4	SP	4'-5', mild HC odor.
M	442	0.7	N	PH03C	5	5	SP	
M	296	0.8	N	PH03D	6	6	SP	6', no odor.

TD @ 6 feet bgs

ENSOLUM

	Sample Name: PH04	Date: 03/30/2022
	Site Name: Poker Lake Unit 158	
	Incident Number: NAPP2202534347	
	Job Number: 03C1558002	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: BB	Method: Hydrovac
Coordinates: 32.237275, -103.913885	Hole Diameter: N/A	Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-1', CALICHE, moist, tan-light brown, unconsolidated, no odor, no stain, fill.
M	<124	0.8	N	PH04	1	1	SP	1'-9', SAND, moist, brown, poorly graded, fine grain, no odor, no staining.
M	<124	0.8	N			2	SP	2'-9', no stain.
M	<124	0.7	Y	PH04A	3	3	SP	
M	<124	0.8	N	PH04B	4	4	SP	
M	<124	0.5	N	PH04C	5	5	SP	
M	<124	0.4	N	PH04D	6	6	SP	6', no odor.

TD @ 6 feet bgs

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
Poker Lake Unit 158
Incident Number NAPP2202534347

Photograph 1
Date: March 3, 2022
Description: View of breached liner area.

Photograph 2
Date: March 3, 2022
Description: View of borehole BH01 location.

Photograph 3
Date: March 30, 2022
Description: View of delineation PH01 location.

Photograph 4
Date: April 13, 2022
Description: View of patched liner.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2048-1
Laboratory Sample Delivery Group: 31403236.029 TASK 08.02
Client Project/Site: PLU 158 BATTERY

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Benjamin Belill

JKramer

Authorized for release by:
3/14/2022 2:17:35 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Laboratory Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

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
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: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Job ID: 890-2048-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2048-1

Receipt
The samples were received on 3/4/2022 1:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH01D (890-2048-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
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: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01

Date Collected: 03/03/22 10:00
Date Received: 03/04/22 13:01
Sample Depth: 1

Lab Sample ID: 890-2048-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 17:46	1
Toluene	**0.00370**		0.00200		mg/Kg		03/11/22 08:45	03/11/22 17:46	1
Ethylbenzene	**0.00235**		0.00200		mg/Kg		03/11/22 08:45	03/11/22 17:46	1
m-Xylene & p-Xylene	**0.0134**		0.00400		mg/Kg		03/11/22 08:45	03/11/22 17:46	1
o-Xylene	**0.0177**		0.00200		mg/Kg		03/11/22 08:45	03/11/22 17:46	1
Xylenes, Total	**0.0311**		0.00400		mg/Kg		03/11/22 08:45	03/11/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/11/22 08:45*	*03/11/22 17:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/11/22 08:45*	*03/11/22 17:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0372**		0.00400		mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2870**		49.8		mg/Kg			03/09/22 19:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/08/22 08:46	03/09/22 04:42	1
Diesel Range Organics (Over C10-C28)	**2870**		49.8		mg/Kg		03/08/22 08:46	03/09/22 04:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/08/22 08:46	03/09/22 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/08/22 08:46*	*03/09/22 04:42*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/08/22 08:46*	*03/09/22 04:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**479**		5.05		mg/Kg			03/12/22 17:24	1

Client Sample ID: BH01A

Date Collected: 03/03/22 10:45
Date Received: 03/04/22 13:01
Sample Depth: 3

Lab Sample ID: 890-2048-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:07	1
m-Xylene & p-Xylene	**0.00567**		0.00398		mg/Kg		03/11/22 08:45	03/11/22 18:07	1
o-Xylene	**0.0118**		0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:07	1
Xylenes, Total	**0.0175**		0.00398		mg/Kg		03/11/22 08:45	03/11/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/11/22 08:45*	*03/11/22 18:07*	*1*

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01A

Date Collected: 03/03/22 10:45
Date Received: 03/04/22 13:01
Sample Depth: 3

Lab Sample ID: 890-2048-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/11/22 08:45*	*03/11/22 18:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0175**		0.00398	mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4980**		50.0	mg/Kg			03/09/22 19:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**78.7**		50.0	mg/Kg		03/08/22 08:46	03/09/22 05:05	1
Diesel Range Organics (Over C10-C28)	**4900**		50.0	mg/Kg		03/08/22 08:46	03/09/22 05:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/22 08:46	03/09/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*03/08/22 08:46*	*03/09/22 05:05*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*03/08/22 08:46*	*03/09/22 05:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		25.0	mg/Kg			03/12/22 17:30	5

Client Sample ID: BH01B

Date Collected: 03/03/22 13:00
Date Received: 03/04/22 13:01
Sample Depth: 4

Lab Sample ID: 890-2048-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/11/22 08:45	03/11/22 18:27	1
Toluene	**0.0375**		0.00200	mg/Kg		03/11/22 08:45	03/11/22 18:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/11/22 08:45	03/11/22 18:27	1
m-Xylene & p-Xylene	**0.00763**		0.00399	mg/Kg		03/11/22 08:45	03/11/22 18:27	1
o-Xylene	**0.00277**		0.00200	mg/Kg		03/11/22 08:45	03/11/22 18:27	1
Xylenes, Total	**0.0104**		0.00399	mg/Kg		03/11/22 08:45	03/11/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*445*	*S1+*	*70 - 130*	*03/11/22 08:45*	*03/11/22 18:27*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/11/22 08:45*	*03/11/22 18:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0479**		0.00399	mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1760**		50.0	mg/Kg			03/09/22 19:12	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01B

Date Collected: 03/03/22 13:00
Date Received: 03/04/22 13:01
Sample Depth: 4

Lab Sample ID: 890-2048-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/09/22 05:27	1
Diesel Range Organics (Over C10-C28)	**1760**		50.0		mg/Kg		03/08/22 08:46	03/09/22 05:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/09/22 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*03/08/22 08:46*	*03/09/22 05:27*	*1*
o-Terphenyl	*113*		*70 - 130*	*03/08/22 08:46*	*03/09/22 05:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1720**		24.9		mg/Kg			03/12/22 17:36	5

Client Sample ID: BH01C

Date Collected: 03/03/22 12:00
Date Received: 03/04/22 13:01
Sample Depth: 5

Lab Sample ID: 890-2048-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/11/22 08:45	03/11/22 18:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 18:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/11/22 08:45	03/11/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/11/22 08:45*	*03/11/22 18:48*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/11/22 08:45*	*03/11/22 18:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2030**		50.0		mg/Kg			03/09/22 19:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/09/22 05:46	1
Diesel Range Organics (Over C10-C28)	**2030**		50.0		mg/Kg		03/08/22 08:46	03/09/22 05:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/09/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*03/08/22 08:46*	*03/09/22 05:46*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/08/22 08:46*	*03/09/22 05:46*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01C

Lab Sample ID: 890-2048-4
Matrix: Solid
Date Collected: 03/03/22 12:00
Date Received: 03/04/22 13:01
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2670**		24.9		mg/Kg			03/12/22 17:42	5

Client Sample ID: BH01D

Lab Sample ID: 890-2048-5
Matrix: Solid
Date Collected: 03/03/22 12:30
Date Received: 03/04/22 13:01
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 19:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 19:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 19:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/11/22 08:45	03/11/22 19:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/11/22 08:45	03/11/22 19:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/11/22 08:45	03/11/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*302*	*S1+*	*70 - 130*	*03/11/22 08:45*	*03/11/22 19:08*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/11/22 08:45*	*03/11/22 19:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**78.6**		49.9		mg/Kg			03/09/22 19:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/08/22 08:46	03/09/22 03:33	1
Diesel Range Organics (Over C10-C28)	**78.6**		49.9		mg/Kg		03/08/22 08:46	03/09/22 03:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/22 08:46	03/09/22 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*03/08/22 08:46*	*03/09/22 03:33*	*1*
o-Terphenyl	*115*		*70 - 130*	*03/08/22 08:46*	*03/09/22 03:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3120**		25.0		mg/Kg			03/12/22 18:00	5

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01E
Date Collected: 03/03/22 13:00
Date Received: 03/04/22 13:01
Sample Depth: 9

Lab Sample ID: 890-2048-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 19:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 19:29	1
Ethylbenzene	**0.00325**		0.00200		mg/Kg		03/11/22 08:45	03/11/22 19:29	1
m-Xylene & p-Xylene	**0.0174**		0.00399		mg/Kg		03/11/22 08:45	03/11/22 19:29	1
o-Xylene	**0.0301**		0.00200		mg/Kg		03/11/22 08:45	03/11/22 19:29	1
Xylenes, Total	**0.0475**		0.00399		mg/Kg		03/11/22 08:45	03/11/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/11/22 08:45*	*03/11/22 19:29*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*03/11/22 08:45*	*03/11/22 19:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0508**		0.00399		mg/Kg			03/14/22 14:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/09/22 19:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/08/22 08:46	03/09/22 04:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/22 08:46	03/09/22 04:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/22 08:46	03/09/22 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*03/08/22 08:46*	*03/09/22 04:19*	*1*
o-Terphenyl	*109*		*70 - 130*	*03/08/22 08:46*	*03/09/22 04:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3710**		49.9		mg/Kg			03/12/22 18:05	10

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-12301-A-6-B MS	Matrix Spike	113	110										
880-12301-A-6-C MSD	Matrix Spike Duplicate	112	112										
890-2048-1	BH01	87	107										
890-2048-2	BH01A	117	104										
890-2048-3	BH01B	445 S1+	89										
890-2048-4	BH01C	104	110										
890-2048-5	BH01D	302 S1+	98										
890-2048-6	BH01E	88	117										
LCS 880-21364/1-A	Lab Control Sample	96	104										
LCSD 880-21364/2-A	Lab Control Sample Dup	103	109										
MB 880-21364/5-A	Method Blank	104	104										

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)										
880-12075-A-21-B MS	Matrix Spike	106	86										
880-12075-A-21-C MSD	Matrix Spike Duplicate	110	89										
890-2048-1	BH01	110	103										
890-2048-2	BH01A	131 S1+	131 S1+										
890-2048-3	BH01B	116	113										
890-2048-4	BH01C	128	125										
890-2048-5	BH01D	116	115										
890-2048-6	BH01E	111	109										
LCS 880-21112/2-A	Lab Control Sample	102	89										
LCSD 880-21112/3-A	Lab Control Sample Dup	106	93										
MB 880-21112/1-A	Method Blank	137 S1+	139 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21364/5-A
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21364

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 12:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/11/22 08:45	03/11/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:45	03/11/22 12:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/11/22 08:45	03/11/22 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/11/22 08:45*	*03/11/22 12:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/11/22 08:45*	*03/11/22 12:56*	*1*

Lab Sample ID: LCS 880-21364/1-A
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21364

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09733		mg/Kg		97	70 - 130		
Toluene			0.100	0.09798		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2078		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1011		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-21364/2-A
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21364

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1003		mg/Kg		100	70 - 130	3	35
Toluene			0.100	0.1006		mg/Kg		101	70 - 130	3	35
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2119		mg/Kg		106	70 - 130	2	35
o-Xylene			0.100	0.1041		mg/Kg		104	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-12301-A-6-B MS
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0998	0.07999		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.0998	0.07840		mg/Kg		77	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

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

Lab Sample ID: 880-12301-A-6-B MS
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0998	0.07743		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1595		mg/Kg		79	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08084		mg/Kg		80	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-12301-A-6-C MSD
Matrix: Solid
Analysis Batch: 21361

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 21364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08021		mg/Kg		81	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.08055		mg/Kg		80	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07568		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1542		mg/Kg		76	70 - 130	3	35
o-Xylene	<0.00200	U	0.0996	0.07417		mg/Kg		74	70 - 130	9	35

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

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

Lab Sample ID: MB 880-21112/1-A
Matrix: Solid
Analysis Batch: 21117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21112

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/08/22 22:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/08/22 22:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/22 08:46	03/08/22 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*03/08/22 08:46*	*03/08/22 22:17*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*03/08/22 08:46*	*03/08/22 22:17*	*1*

Lab Sample ID: LCS 880-21112/2-A
Matrix: Solid
Analysis Batch: 21117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	840.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)			1000	908.4		mg/Kg		91	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

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

Lab Sample ID: LCS 880-21112/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 21117 **Prep Batch: 21112**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-21112/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 21117 **Prep Batch: 21112**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	824.5		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	915.1		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 880-12075-A-21-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 21117 **Prep Batch: 21112**

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	998	1151		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1134		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-12075-A-21-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 21117 **Prep Batch: 21112**

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	1243		mg/Kg		122	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1186		mg/Kg		115	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21030/1-A
Matrix: Solid
Analysis Batch: 21208

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/12/22 16:49	1

Lab Sample ID: LCS 880-21030/2-A
Matrix: Solid
Analysis Batch: 21208

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	246.1		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-21030/3-A
Matrix: Solid
Analysis Batch: 21208

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	251.2		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 880-12056-A-16-C MS
Matrix: Solid
Analysis Batch: 21208

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	19.7		248	262.1		mg/Kg		98	90 - 110		

Lab Sample ID: 880-12056-A-16-D MSD
Matrix: Solid
Analysis Batch: 21208

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	19.7		248	266.0		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

GC VOA

Analysis Batch: 21361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	8021B	21364
890-2048-2	BH01A	Total/NA	Solid	8021B	21364
890-2048-3	BH01B	Total/NA	Solid	8021B	21364
890-2048-4	BH01C	Total/NA	Solid	8021B	21364
890-2048-5	BH01D	Total/NA	Solid	8021B	21364
890-2048-6	BH01E	Total/NA	Solid	8021B	21364
MB 880-21364/5-A	Method Blank	Total/NA	Solid	8021B	21364
LCS 880-21364/1-A	Lab Control Sample	Total/NA	Solid	8021B	21364
LCSD 880-21364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21364
880-12301-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	21364
880-12301-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21364

Prep Batch: 21364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	5035	
890-2048-2	BH01A	Total/NA	Solid	5035	
890-2048-3	BH01B	Total/NA	Solid	5035	
890-2048-4	BH01C	Total/NA	Solid	5035	
890-2048-5	BH01D	Total/NA	Solid	5035	
890-2048-6	BH01E	Total/NA	Solid	5035	
MB 880-21364/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21364/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21364/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12301-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-12301-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	Total BTEX	
890-2048-2	BH01A	Total/NA	Solid	Total BTEX	
890-2048-3	BH01B	Total/NA	Solid	Total BTEX	
890-2048-4	BH01C	Total/NA	Solid	Total BTEX	
890-2048-5	BH01D	Total/NA	Solid	Total BTEX	
890-2048-6	BH01E	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	8015NM Prep	
890-2048-2	BH01A	Total/NA	Solid	8015NM Prep	
890-2048-3	BH01B	Total/NA	Solid	8015NM Prep	
890-2048-4	BH01C	Total/NA	Solid	8015NM Prep	
890-2048-5	BH01D	Total/NA	Solid	8015NM Prep	
890-2048-6	BH01E	Total/NA	Solid	8015NM Prep	
MB 880-21112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12075-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12075-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

GC Semi VOA

Analysis Batch: 21117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	8015B NM	21112
890-2048-2	BH01A	Total/NA	Solid	8015B NM	21112
890-2048-3	BH01B	Total/NA	Solid	8015B NM	21112
890-2048-4	BH01C	Total/NA	Solid	8015B NM	21112
890-2048-5	BH01D	Total/NA	Solid	8015B NM	21112
890-2048-6	BH01E	Total/NA	Solid	8015B NM	21112
MB 880-21112/1-A	Method Blank	Total/NA	Solid	8015B NM	21112
LCS 880-21112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21112
LCSD 880-21112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21112
880-12075-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21112
880-12075-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21112

Analysis Batch: 21253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Total/NA	Solid	8015 NM	
890-2048-2	BH01A	Total/NA	Solid	8015 NM	
890-2048-3	BH01B	Total/NA	Solid	8015 NM	
890-2048-4	BH01C	Total/NA	Solid	8015 NM	
890-2048-5	BH01D	Total/NA	Solid	8015 NM	
890-2048-6	BH01E	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Soluble	Solid	DI Leach	
890-2048-2	BH01A	Soluble	Solid	DI Leach	
890-2048-3	BH01B	Soluble	Solid	DI Leach	
890-2048-4	BH01C	Soluble	Solid	DI Leach	
890-2048-5	BH01D	Soluble	Solid	DI Leach	
890-2048-6	BH01E	Soluble	Solid	DI Leach	
MB 880-21030/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21030/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21030/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12056-A-16-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12056-A-16-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 21208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2048-1	BH01	Soluble	Solid	300.0	21030
890-2048-2	BH01A	Soluble	Solid	300.0	21030
890-2048-3	BH01B	Soluble	Solid	300.0	21030
890-2048-4	BH01C	Soluble	Solid	300.0	21030
890-2048-5	BH01D	Soluble	Solid	300.0	21030
890-2048-6	BH01E	Soluble	Solid	300.0	21030
MB 880-21030/1-A	Method Blank	Soluble	Solid	300.0	21030
LCS 880-21030/2-A	Lab Control Sample	Soluble	Solid	300.0	21030
LCSD 880-21030/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21030
880-12056-A-16-C MS	Matrix Spike	Soluble	Solid	300.0	21030
880-12056-A-16-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	21030

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01 — Lab Sample ID: 890-2048-1

Date Collected: 03/03/22 10:00 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 17:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 04:42	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		1	21208	03/12/22 17:24	CH	XEN MID

Client Sample ID: BH01A — Lab Sample ID: 890-2048-2

Date Collected: 03/03/22 10:45 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 18:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 05:05	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		5	21208	03/12/22 17:30	CH	XEN MID

Client Sample ID: BH01B — Lab Sample ID: 890-2048-3

Date Collected: 03/03/22 13:00 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 18:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 05:27	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		5	21208	03/12/22 17:36	CH	XEN MID

Client Sample ID: BH01C — Lab Sample ID: 890-2048-4

Date Collected: 03/03/22 12:00 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 18:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

Client Sample ID: BH01C — Lab Sample ID: 890-2048-4

Date Collected: 03/03/22 12:00 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 05:46	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		5	21208	03/12/22 17:42	CH	XEN MID

Client Sample ID: BH01D — Lab Sample ID: 890-2048-5

Date Collected: 03/03/22 12:30 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 19:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		5	21208	03/12/22 18:00	CH	XEN MID

Client Sample ID: BH01E — Lab Sample ID: 890-2048-6

Date Collected: 03/03/22 13:00 **Matrix: Solid**
Date Received: 03/04/22 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			21364	03/11/22 08:45	MR	XEN MID
Total/NA	Analysis	8021B		1	21361	03/11/22 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	21563	03/14/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21253	03/09/22 19:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			21112	03/08/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21117	03/09/22 04:19	AJ	XEN MID
Soluble	Leach	DI Leach			21030	03/07/22 10:54	CH	XEN MID
Soluble	Analysis	300.0		10	21208	03/12/22 18:05	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: WSP USA Inc. Job ID: 890-2048-1
Project/Site: PLU 158 BATTERY SDG: 31403236.029 TASK 08.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 158 BATTERY

Job ID: 890-2048-1
SDG: 31403236.029 TASK 08.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2048-1	BH01	Solid	03/03/22 10:00	03/04/22 13:01	1
890-2048-2	BH01A	Solid	03/03/22 10:45	03/04/22 13:01	3
890-2048-3	BH01B	Solid	03/03/22 13:00	03/04/22 13:01	4
890-2048-4	BH01C	Solid	03/03/22 12:00	03/04/22 13:01	5
890-2048-5	BH01D	Solid	03/03/22 12:30	03/04/22 13:01	6
890-2048-6	BH01E	Solid	03/03/22 13:00	03/04/22 13:01	9

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

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Project Manager:	Ben Belill	Bill to: (if different)	Adrian Baker
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852	Email:	ben.belill@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 158 Battery	Turn Around	
Project Number:	31403236.029 Task: 08.02	Routine	☑
P.O. Number:	NAPP2202534347	Rush:	
Sampler's Name:	Ben Belill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	5.6/5.4	Thermometer ID	TWM-007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
BH01	S	3/3/22	1000	1'	1	X	X	X
BH01 A			1045	3'				
BH01 B			1130	4'				
BH01 C			1200	5'				
BH01 D			1230	6'				
BH01 E	↓	↓	1300	9'	↓	↓	↓	↓
				BTB	3/3/22			

890-2048 Chain of Custody

Work Order Notes

CC: 1081121001

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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 **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to 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 [signature]	Clint Cuff 3-4-22 1301	3/4/22@1300	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2048-1
SDG Number: 31403236.029 TASK 08.02

Login Number: 2048
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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2048-1
SDG Number: 31403236.029 TASK 08.02

Login Number: 2048
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/07/22 09:20 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

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

Laboratory Job ID: 890-2162-1
Laboratory Sample Delivery Group: 03C1558002
Client Project/Site: PLU 158 Battery

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

JKramer

Authorized for release by:
4/7/2022 4:17:50 PM

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

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

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

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Job ID: 890-2162-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2162-1

Receipt
The samples were received on 4/1/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

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 880-22889 and analytical batch 880-22883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-22889/1-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 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01

Date Collected: 03/30/22 09:30
Date Received: 04/01/22 09:40
Sample Depth: 1

Lab Sample ID: 890-2162-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 13:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 13:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		04/04/22 08:58	04/04/22 11:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		04/04/22 08:58	04/04/22 11:48	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 08:58	04/04/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/04/22 08:58*	*04/04/22 11:48*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/04/22 08:58*	*04/04/22 11:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.1**		5.00		mg/Kg			04/05/22 23:10	1

Client Sample ID: PH01A

Date Collected: 03/30/22 09:50
Date Received: 04/01/22 09:40
Sample Depth: 3

Lab Sample ID: 890-2162-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01A

Lab Sample ID: 890-2162-2

Date Collected: 03/30/22 09:50
Matrix: Solid
Date Received: 04/01/22 09:40
Sample Depth: 3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 12:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 12:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/04/22 08:58*	*04/04/22 12:53*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 12:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.0**		5.00		mg/Kg			04/05/22 23:19	1

Client Sample ID: PH01B

Lab Sample ID: 890-2162-3

Date Collected: 03/30/22 10:00
Matrix: Solid
Date Received: 04/01/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 13:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 13:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/04/22 11:17*	*04/04/22 13:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 09:18	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01B

Lab Sample ID: 890-2162-3
Matrix: Solid
Date Collected: 03/30/22 10:00
Date Received: 04/01/22 09:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 08:58	04/04/22 13:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 08:58	04/04/22 13:14	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 08:58	04/04/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:14*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**748**		4.99		mg/Kg			04/05/22 23:45	1

Client Sample ID: PH01C

Lab Sample ID: 890-2162-4
Matrix: Solid
Date Collected: 03/30/22 10:10
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/04/22 11:17	04/04/22 14:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/04/22 11:17	04/04/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:35*	*1*
o-Terphenyl	*111*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01C

Lab Sample ID: 890-2162-4
Matrix: Solid
Date Collected: 03/30/22 10:10
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		4.95		mg/Kg			04/05/22 23:54	1

Client Sample ID: PH01D

Lab Sample ID: 890-2162-5
Matrix: Solid
Date Collected: 03/30/22 10:15
Date Received: 04/01/22 09:40
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 14:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 14:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 14:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 14:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 14:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:57*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/04/22 08:58*	*04/04/22 13:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.99		mg/Kg			04/06/22 00:20	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH02

Date Collected: 03/30/22 10:20
Date Received: 04/01/22 09:40
Sample Depth: 1

Lab Sample ID: 890-2162-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/04/22 11:17	04/04/22 14:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 14:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/04/22 11:17	04/04/22 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:45*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/04/22 11:17*	*04/04/22 14:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 14:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/04/22 08:58*	*04/04/22 14:18*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/04/22 08:58*	*04/04/22 14:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		4.95		mg/Kg			04/06/22 00:29	1

Client Sample ID: PH02A

Date Collected: 03/30/22 10:35
Date Received: 04/01/22 09:40
Sample Depth: 3

Lab Sample ID: 890-2162-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/04/22 11:17	04/04/22 15:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/04/22 11:17	04/04/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/04/22 11:17*	*04/04/22 15:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH02A
Date Collected: 03/30/22 10:35
Date Received: 04/01/22 09:40
Sample Depth: 3

Lab Sample ID: 890-2162-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/04/22 11:17*	*04/04/22 15:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 14:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/04/22 08:58*	*04/04/22 14:39*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/04/22 08:58*	*04/04/22 14:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**218**		5.04		mg/Kg			04/06/22 00:37	1

Client Sample ID: PH02B
Date Collected: 03/30/22 10:40
Date Received: 04/01/22 09:40
Sample Depth: 4

Lab Sample ID: 890-2162-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 15:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 15:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/04/22 11:17*	*04/04/22 15:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/04/22 11:17*	*04/04/22 15:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH02B

Lab Sample ID: 890-2162-8
Matrix: Solid
Date Collected: 03/30/22 10:40
Date Received: 04/01/22 09:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:01*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.05**		4.97		mg/Kg			04/06/22 00:46	1

Client Sample ID: PH02C

Lab Sample ID: 890-2162-9
Matrix: Solid
Date Collected: 03/30/22 10:45
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 15:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 15:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 15:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 15:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/04/22 11:17*	*04/04/22 15:47*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/04/22 11:17*	*04/04/22 15:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 15:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:22*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:22*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH02C

Lab Sample ID: 890-2162-9
Matrix: Solid
Date Collected: 03/30/22 10:45
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		4.99		mg/Kg			04/06/22 00:55	1

Client Sample ID: PH02D

Lab Sample ID: 890-2162-10
Matrix: Solid
Date Collected: 03/30/22 11:00
Date Received: 04/01/22 09:40
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 16:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 16:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 16:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 16:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 16:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/04/22 11:17*	*04/04/22 16:07*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/04/22 11:17*	*04/04/22 16:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:44*	*1*
o-Terphenyl	*96*		*70 - 130*	*04/04/22 08:58*	*04/04/22 15:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.00		mg/Kg			04/06/22 01:03	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03

Date Collected: 03/30/22 11:10
Date Received: 04/01/22 09:40
Sample Depth: 1

Lab Sample ID: 890-2162-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 17:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 17:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/04/22 11:17*	*04/04/22 17:58*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/04/22 11:17*	*04/04/22 17:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/04/22 08:58*	*04/04/22 16:27*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/04/22 08:58*	*04/04/22 16:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			04/06/22 22:51	1

Client Sample ID: PH03A

Date Collected: 03/30/22 11:30
Date Received: 04/01/22 09:40
Sample Depth: 3

Lab Sample ID: 890-2162-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:18*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03A

Lab Sample ID: 890-2162-12
Matrix: Solid
Date Collected: 03/30/22 11:30
Date Received: 04/01/22 09:40
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*100*		*70 - 130*	*04/04/22 08:58*	*04/04/22 16:48*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/04/22 08:58*	*04/04/22 16:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**393**		5.00		mg/Kg			04/07/22 08:56	1

Client Sample ID: PH03B

Lab Sample ID: 890-2162-13
Matrix: Solid
Date Collected: 03/30/22 11:40
Date Received: 04/01/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 18:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 18:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:39*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03B

Lab Sample ID: 890-2162-13
Matrix: Solid
Date Collected: 03/30/22 11:40
Date Received: 04/01/22 09:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:10*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**666**		5.00		mg/Kg			04/07/22 09:23	1

Client Sample ID: PH03C

Lab Sample ID: 890-2162-14
Matrix: Solid
Date Collected: 03/30/22 11:50
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 18:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 18:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/04/22 11:17*	*04/04/22 18:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 17:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 17:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:31*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:31*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03C

Lab Sample ID: 890-2162-14
Matrix: Solid
Date Collected: 03/30/22 11:50
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		4.99		mg/Kg			04/07/22 09:31	1

Client Sample ID: PH03D

Lab Sample ID: 890-2162-15
Matrix: Solid
Date Collected: 03/30/22 12:00
Date Received: 04/01/22 09:40
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 19:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 19:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 19:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 19:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 19:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*04/04/22 11:17*	*04/04/22 19:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/04/22 11:17*	*04/04/22 19:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:52*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/04/22 08:58*	*04/04/22 17:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.95		mg/Kg			04/07/22 09:40	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH04

Date Collected: 03/30/22 12:10
Date Received: 04/01/22 09:40
Sample Depth: 1

Lab Sample ID: 890-2162-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 19:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 19:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 19:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/04/22 11:17	04/04/22 19:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:17	04/04/22 19:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/04/22 11:17	04/04/22 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*04/04/22 11:17*	*04/04/22 19:40*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/04/22 11:17*	*04/04/22 19:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:14*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			04/07/22 14:07	1

Client Sample ID: PH04A

Date Collected: 03/30/22 12:30
Date Received: 04/01/22 09:40
Sample Depth: 3

Lab Sample ID: 890-2162-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:01*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH04A

Lab Sample ID: 890-2162-17
Matrix: Solid
Date Collected: 03/30/22 12:30
Date Received: 04/01/22 09:40
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:35*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 10:07	1

Client Sample ID: PH04B

Lab Sample ID: 890-2162-18
Matrix: Solid
Date Collected: 03/30/22 12:40
Date Received: 04/01/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 09:18	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH04B

Lab Sample ID: 890-2162-18
Matrix: Solid
Date Collected: 03/30/22 12:40
Date Received: 04/01/22 09:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 18:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 18:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 08:58	04/04/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:56*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/04/22 08:58*	*04/04/22 18:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.71**		4.97		mg/Kg			04/07/22 10:16	1

Client Sample ID: PH04C

Lab Sample ID: 890-2162-19
Matrix: Solid
Date Collected: 03/30/22 12:50
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:17	04/04/22 20:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:17	04/04/22 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:41*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/04/22 11:17*	*04/04/22 20:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*04/04/22 08:58*	*04/04/22 19:17*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/04/22 08:58*	*04/04/22 19:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH04C

Lab Sample ID: 890-2162-19
Matrix: Solid
Date Collected: 03/30/22 12:50
Date Received: 04/01/22 09:40
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 10:24	1

Client Sample ID: PH04D

Lab Sample ID: 890-2162-20
Matrix: Solid
Date Collected: 03/30/22 13:00
Date Received: 04/01/22 09:40
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 21:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 21:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 21:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 21:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 21:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:17	04/04/22 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/04/22 11:17*	*04/04/22 21:02*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/04/22 11:17*	*04/04/22 21:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/04/22 08:58*	*04/04/22 19:39*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/04/22 08:58*	*04/04/22 19:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			04/07/22 10:33	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

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)										
890-2162-1	PH01	111	89										
890-2162-1 MS	PH01	107	96										
890-2162-1 MSD	PH01	108	91										
890-2162-2	PH01A	108	92										
890-2162-3	PH01B	111	96										
890-2162-4	PH01C	110	97										
890-2162-5	PH01D	106	96										
890-2162-6	PH02	96	92										
890-2162-7	PH02A	112	92										
890-2162-8	PH02B	108	98										
890-2162-9	PH02C	131 S1+	103										
890-2162-10	PH02D	108	92										
890-2162-11	PH03	94	106										
890-2162-12	PH03A	112	89										
890-2162-13	PH03B	110	91										
890-2162-14	PH03C	74	101										
890-2162-15	PH03D	117	95										
890-2162-16	PH04	115	99										
890-2162-17	PH04A	111	100										
890-2162-18	PH04B	110	98										
890-2162-19	PH04C	110	101										
890-2162-20	PH04D	108	97										
LCS 880-22921/1-A	Lab Control Sample	99	100										
LCSD 880-22921/2-A	Lab Control Sample Dup	100	97										
MB 880-22921/5-A	Method Blank	98	93										

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)										
890-2162-1	PH01	96	95										
890-2162-1 MS	PH01	113	96										
890-2162-1 MSD	PH01	130	112										
890-2162-2	PH01A	103	98										
890-2162-3	PH01B	98	104										
890-2162-4	PH01C	108	111										
890-2162-5	PH01D	96	95										
890-2162-6	PH02	103	104										
890-2162-7	PH02A	94	94										
890-2162-8	PH02B	106	107										
890-2162-9	PH02C	94	95										
890-2162-10	PH02D	99	96										
890-2162-11	PH03	100	97										
890-2162-12	PH03A	100	107										

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Surrogate Summary

Client: Ensolum Job ID: 890-2162-1
Project/Site: PLU 158 Battery SDG: 03C1558002

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-2162-13	PH03B	97	99								
890-2162-14	PH03C	97	98								
890-2162-15	PH03D	96	93								
890-2162-16	PH04	92	89								
890-2162-17	PH04A	96	98								
890-2162-18	PH04B	98	97								
890-2162-19	PH04C	98	102								
890-2162-20	PH04D	100	97								
LCS 880-22889/2-A	Lab Control Sample	107	95								
LCSD 880-22889/3-A	Lab Control Sample Dup	114	101								
MB 880-22889/1-A	Method Blank	132 S1+	139 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22921/5-A
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/04/22 11:17	04/04/22 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:17	04/04/22 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/04/22 11:17	04/04/22 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/04/22 11:17*	*04/04/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/04/22 11:17*	*04/04/22 12:35*	*1*

Lab Sample ID: LCS 880-22921/1-A
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09390		mg/Kg		94	70 - 130
Toluene	0.100	0.1079		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1135		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2273		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-22921/2-A
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09226		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.1125		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2267		mg/Kg		113	70 - 130	0	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	1	35

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

Lab Sample ID: 890-2162-1 MS
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 22921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1050		mg/Kg		105	70 - 130
Toluene	<0.00200	U	0.0998	0.1235		mg/Kg		124	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

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

Lab Sample ID: 890-2162-1 MS
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 22921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.1224		mg/Kg		123	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2577		mg/Kg		129	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1202		mg/Kg		120	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2162-1 MSD
Matrix: Solid
Analysis Batch: 22890

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 22921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09908		mg/Kg		99	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.1220		mg/Kg		122	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1249		mg/Kg		124	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.201	0.2606		mg/Kg		130	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1196		mg/Kg		119	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

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

Lab Sample ID: MB 880-22889/1-A
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 10:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 10:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 08:58	04/04/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*04/04/22 08:58*	*04/04/22 10:45*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*04/04/22 08:58*	*04/04/22 10:45*	*1*

Lab Sample ID: LCS 880-22889/2-A
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	921.9		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	972.3		mg/Kg		97	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

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

Lab Sample ID: LCS 880-22889/2-A
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22889

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-22889/3-A
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22889

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	836.6		mg/Kg		84	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	918.4		mg/Kg		92	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-2162-1 MS
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 22889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	998	1188		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	1122		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-2162-1 MSD
Matrix: Solid
Analysis Batch: 22883

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 22889

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	<49.8	U F1	998	1406	F1	mg/Kg		141	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	1343	F1	mg/Kg		135	70 - 130	18	20

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

QC Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22962/1-A
Matrix: Solid
Analysis Batch: 23035

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/05/22 20:51	1

Lab Sample ID: LCS 880-22962/2-A
Matrix: Solid
Analysis Batch: 23035

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-22962/3-A
Matrix: Solid
Analysis Batch: 23035

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	250.6		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-2162-2 MS
Matrix: Solid
Analysis Batch: 23035

Client Sample ID: PH01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0		250	272.9		mg/Kg		99	90 - 110

Lab Sample ID: 890-2162-2 MSD
Matrix: Solid
Analysis Batch: 23035

Client Sample ID: PH01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0		250	270.9		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 880-22977/1-A
Matrix: Solid
Analysis Batch: 23045

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 08:29	1

Lab Sample ID: LCS 880-22977/2-A
Matrix: Solid
Analysis Batch: 23045

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-22977/3-A
Matrix: Solid
Analysis Batch: 23045

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.9		mg/Kg		98	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2162-12 MS
Matrix: Solid
Analysis Batch: 23045

Client Sample ID: PH03A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	393		250	635.1		mg/Kg		97	90 - 110		

Lab Sample ID: 890-2162-12 MSD
Matrix: Solid
Analysis Batch: 23045

Client Sample ID: PH03A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	393		250	628.4		mg/Kg		94	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

GC VOA

Analysis Batch: 22890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	8021B	22921
890-2162-2	PH01A	Total/NA	Solid	8021B	22921
890-2162-3	PH01B	Total/NA	Solid	8021B	22921
890-2162-4	PH01C	Total/NA	Solid	8021B	22921
890-2162-5	PH01D	Total/NA	Solid	8021B	22921
890-2162-6	PH02	Total/NA	Solid	8021B	22921
890-2162-7	PH02A	Total/NA	Solid	8021B	22921
890-2162-8	PH02B	Total/NA	Solid	8021B	22921
890-2162-9	PH02C	Total/NA	Solid	8021B	22921
890-2162-10	PH02D	Total/NA	Solid	8021B	22921
890-2162-11	PH03	Total/NA	Solid	8021B	22921
890-2162-12	PH03A	Total/NA	Solid	8021B	22921
890-2162-13	PH03B	Total/NA	Solid	8021B	22921
890-2162-14	PH03C	Total/NA	Solid	8021B	22921
890-2162-15	PH03D	Total/NA	Solid	8021B	22921
890-2162-16	PH04	Total/NA	Solid	8021B	22921
890-2162-17	PH04A	Total/NA	Solid	8021B	22921
890-2162-18	PH04B	Total/NA	Solid	8021B	22921
890-2162-19	PH04C	Total/NA	Solid	8021B	22921
890-2162-20	PH04D	Total/NA	Solid	8021B	22921
MB 880-22921/5-A	Method Blank	Total/NA	Solid	8021B	22921
LCS 880-22921/1-A	Lab Control Sample	Total/NA	Solid	8021B	22921
LCSD 880-22921/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22921
890-2162-1 MS	PH01	Total/NA	Solid	8021B	22921
890-2162-1 MSD	PH01	Total/NA	Solid	8021B	22921

Prep Batch: 22921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	5035	
890-2162-2	PH01A	Total/NA	Solid	5035	
890-2162-3	PH01B	Total/NA	Solid	5035	
890-2162-4	PH01C	Total/NA	Solid	5035	
890-2162-5	PH01D	Total/NA	Solid	5035	
890-2162-6	PH02	Total/NA	Solid	5035	
890-2162-7	PH02A	Total/NA	Solid	5035	
890-2162-8	PH02B	Total/NA	Solid	5035	
890-2162-9	PH02C	Total/NA	Solid	5035	
890-2162-10	PH02D	Total/NA	Solid	5035	
890-2162-11	PH03	Total/NA	Solid	5035	
890-2162-12	PH03A	Total/NA	Solid	5035	
890-2162-13	PH03B	Total/NA	Solid	5035	
890-2162-14	PH03C	Total/NA	Solid	5035	
890-2162-15	PH03D	Total/NA	Solid	5035	
890-2162-16	PH04	Total/NA	Solid	5035	
890-2162-17	PH04A	Total/NA	Solid	5035	
890-2162-18	PH04B	Total/NA	Solid	5035	
890-2162-19	PH04C	Total/NA	Solid	5035	
890-2162-20	PH04D	Total/NA	Solid	5035	
MB 880-22921/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22921/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22921/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

GC VOA (Continued)

Prep Batch: 22921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1 MS	PH01	Total/NA	Solid	5035	
890-2162-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 23037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	Total BTEX	
890-2162-2	PH01A	Total/NA	Solid	Total BTEX	
890-2162-3	PH01B	Total/NA	Solid	Total BTEX	
890-2162-4	PH01C	Total/NA	Solid	Total BTEX	
890-2162-5	PH01D	Total/NA	Solid	Total BTEX	
890-2162-6	PH02	Total/NA	Solid	Total BTEX	
890-2162-7	PH02A	Total/NA	Solid	Total BTEX	
890-2162-8	PH02B	Total/NA	Solid	Total BTEX	
890-2162-9	PH02C	Total/NA	Solid	Total BTEX	
890-2162-10	PH02D	Total/NA	Solid	Total BTEX	
890-2162-11	PH03	Total/NA	Solid	Total BTEX	
890-2162-12	PH03A	Total/NA	Solid	Total BTEX	
890-2162-13	PH03B	Total/NA	Solid	Total BTEX	
890-2162-14	PH03C	Total/NA	Solid	Total BTEX	
890-2162-15	PH03D	Total/NA	Solid	Total BTEX	
890-2162-16	PH04	Total/NA	Solid	Total BTEX	
890-2162-17	PH04A	Total/NA	Solid	Total BTEX	
890-2162-18	PH04B	Total/NA	Solid	Total BTEX	
890-2162-19	PH04C	Total/NA	Solid	Total BTEX	
890-2162-20	PH04D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	8015B NM	22889
890-2162-2	PH01A	Total/NA	Solid	8015B NM	22889
890-2162-3	PH01B	Total/NA	Solid	8015B NM	22889
890-2162-4	PH01C	Total/NA	Solid	8015B NM	22889
890-2162-5	PH01D	Total/NA	Solid	8015B NM	22889
890-2162-6	PH02	Total/NA	Solid	8015B NM	22889
890-2162-7	PH02A	Total/NA	Solid	8015B NM	22889
890-2162-8	PH02B	Total/NA	Solid	8015B NM	22889
890-2162-9	PH02C	Total/NA	Solid	8015B NM	22889
890-2162-10	PH02D	Total/NA	Solid	8015B NM	22889
890-2162-11	PH03	Total/NA	Solid	8015B NM	22889
890-2162-12	PH03A	Total/NA	Solid	8015B NM	22889
890-2162-13	PH03B	Total/NA	Solid	8015B NM	22889
890-2162-14	PH03C	Total/NA	Solid	8015B NM	22889
890-2162-15	PH03D	Total/NA	Solid	8015B NM	22889
890-2162-16	PH04	Total/NA	Solid	8015B NM	22889
890-2162-17	PH04A	Total/NA	Solid	8015B NM	22889
890-2162-18	PH04B	Total/NA	Solid	8015B NM	22889
890-2162-19	PH04C	Total/NA	Solid	8015B NM	22889
890-2162-20	PH04D	Total/NA	Solid	8015B NM	22889
MB 880-22889/1-A	Method Blank	Total/NA	Solid	8015B NM	22889

QC Association Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

GC Semi VOA (Continued)

Analysis Batch: 22883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-22889/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22889
LCSD 880-22889/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22889
890-2162-1 MS	PH01	Total/NA	Solid	8015B NM	22889
890-2162-1 MSD	PH01	Total/NA	Solid	8015B NM	22889

Prep Batch: 22889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	8015NM Prep	
890-2162-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2162-3	PH01B	Total/NA	Solid	8015NM Prep	
890-2162-4	PH01C	Total/NA	Solid	8015NM Prep	
890-2162-5	PH01D	Total/NA	Solid	8015NM Prep	
890-2162-6	PH02	Total/NA	Solid	8015NM Prep	
890-2162-7	PH02A	Total/NA	Solid	8015NM Prep	
890-2162-8	PH02B	Total/NA	Solid	8015NM Prep	
890-2162-9	PH02C	Total/NA	Solid	8015NM Prep	
890-2162-10	PH02D	Total/NA	Solid	8015NM Prep	
890-2162-11	PH03	Total/NA	Solid	8015NM Prep	
890-2162-12	PH03A	Total/NA	Solid	8015NM Prep	
890-2162-13	PH03B	Total/NA	Solid	8015NM Prep	
890-2162-14	PH03C	Total/NA	Solid	8015NM Prep	
890-2162-15	PH03D	Total/NA	Solid	8015NM Prep	
890-2162-16	PH04	Total/NA	Solid	8015NM Prep	
890-2162-17	PH04A	Total/NA	Solid	8015NM Prep	
890-2162-18	PH04B	Total/NA	Solid	8015NM Prep	
890-2162-19	PH04C	Total/NA	Solid	8015NM Prep	
890-2162-20	PH04D	Total/NA	Solid	8015NM Prep	
MB 880-22889/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22889/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22889/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2162-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2162-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Total/NA	Solid	8015 NM	
890-2162-2	PH01A	Total/NA	Solid	8015 NM	
890-2162-3	PH01B	Total/NA	Solid	8015 NM	
890-2162-4	PH01C	Total/NA	Solid	8015 NM	
890-2162-5	PH01D	Total/NA	Solid	8015 NM	
890-2162-6	PH02	Total/NA	Solid	8015 NM	
890-2162-7	PH02A	Total/NA	Solid	8015 NM	
890-2162-8	PH02B	Total/NA	Solid	8015 NM	
890-2162-9	PH02C	Total/NA	Solid	8015 NM	
890-2162-10	PH02D	Total/NA	Solid	8015 NM	
890-2162-11	PH03	Total/NA	Solid	8015 NM	
890-2162-12	PH03A	Total/NA	Solid	8015 NM	
890-2162-13	PH03B	Total/NA	Solid	8015 NM	
890-2162-14	PH03C	Total/NA	Solid	8015 NM	
890-2162-15	PH03D	Total/NA	Solid	8015 NM	
890-2162-16	PH04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

GC Semi VOA (Continued)

Analysis Batch: 22996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-17	PH04A	Total/NA	Solid	8015 NM	
890-2162-18	PH04B	Total/NA	Solid	8015 NM	
890-2162-19	PH04C	Total/NA	Solid	8015 NM	
890-2162-20	PH04D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Soluble	Solid	DI Leach	
890-2162-2	PH01A	Soluble	Solid	DI Leach	
890-2162-3	PH01B	Soluble	Solid	DI Leach	
890-2162-4	PH01C	Soluble	Solid	DI Leach	
890-2162-5	PH01D	Soluble	Solid	DI Leach	
890-2162-6	PH02	Soluble	Solid	DI Leach	
890-2162-7	PH02A	Soluble	Solid	DI Leach	
890-2162-8	PH02B	Soluble	Solid	DI Leach	
890-2162-9	PH02C	Soluble	Solid	DI Leach	
890-2162-10	PH02D	Soluble	Solid	DI Leach	
890-2162-11	PH03	Soluble	Solid	DI Leach	
MB 880-22962/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22962/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22962/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2162-2 MS	PH01A	Soluble	Solid	DI Leach	
890-2162-2 MSD	PH01A	Soluble	Solid	DI Leach	

Leach Batch: 22977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-12	PH03A	Soluble	Solid	DI Leach	
890-2162-13	PH03B	Soluble	Solid	DI Leach	
890-2162-14	PH03C	Soluble	Solid	DI Leach	
890-2162-15	PH03D	Soluble	Solid	DI Leach	
890-2162-16	PH04	Soluble	Solid	DI Leach	
890-2162-17	PH04A	Soluble	Solid	DI Leach	
890-2162-18	PH04B	Soluble	Solid	DI Leach	
890-2162-19	PH04C	Soluble	Solid	DI Leach	
890-2162-20	PH04D	Soluble	Solid	DI Leach	
MB 880-22977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2162-12 MS	PH03A	Soluble	Solid	DI Leach	
890-2162-12 MSD	PH03A	Soluble	Solid	DI Leach	

Analysis Batch: 23035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-1	PH01	Soluble	Solid	300.0	22962
890-2162-2	PH01A	Soluble	Solid	300.0	22962
890-2162-3	PH01B	Soluble	Solid	300.0	22962
890-2162-4	PH01C	Soluble	Solid	300.0	22962
890-2162-5	PH01D	Soluble	Solid	300.0	22962
890-2162-6	PH02	Soluble	Solid	300.0	22962

QC Association Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

HPLC/IC (Continued)

Analysis Batch: 23035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-7	PH02A	Soluble	Solid	300.0	22962
890-2162-8	PH02B	Soluble	Solid	300.0	22962
890-2162-9	PH02C	Soluble	Solid	300.0	22962
890-2162-10	PH02D	Soluble	Solid	300.0	22962
890-2162-11	PH03	Soluble	Solid	300.0	22962
MB 880-22962/1-A	Method Blank	Soluble	Solid	300.0	22962
LCS 880-22962/2-A	Lab Control Sample	Soluble	Solid	300.0	22962
LCSD 880-22962/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22962
890-2162-2 MS	PH01A	Soluble	Solid	300.0	22962
890-2162-2 MSD	PH01A	Soluble	Solid	300.0	22962

Analysis Batch: 23045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2162-12	PH03A	Soluble	Solid	300.0	22977
890-2162-13	PH03B	Soluble	Solid	300.0	22977
890-2162-14	PH03C	Soluble	Solid	300.0	22977
890-2162-15	PH03D	Soluble	Solid	300.0	22977
890-2162-16	PH04	Soluble	Solid	300.0	22977
890-2162-17	PH04A	Soluble	Solid	300.0	22977
890-2162-18	PH04B	Soluble	Solid	300.0	22977
890-2162-19	PH04C	Soluble	Solid	300.0	22977
890-2162-20	PH04D	Soluble	Solid	300.0	22977
MB 880-22977/1-A	Method Blank	Soluble	Solid	300.0	22977
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	300.0	22977
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22977
890-2162-12 MS	PH03A	Soluble	Solid	300.0	22977
890-2162-12 MSD	PH03A	Soluble	Solid	300.0	22977

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01

Date Collected: 03/30/22 09:30
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 11:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 23:10	CH	XEN MID

Client Sample ID: PH01A

Date Collected: 03/30/22 09:50
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 13:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 23:19	CH	XEN MID

Client Sample ID: PH01B

Date Collected: 03/30/22 10:00
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-3

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			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 23:45	CH	XEN MID

Client Sample ID: PH01C

Date Collected: 03/30/22 10:10
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-4

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			5.04 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 14:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH01C

Date Collected: 03/30/22 10:10
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-4

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			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 13:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 23:54	CH	XEN MID

Client Sample ID: PH01D

Date Collected: 03/30/22 10:15
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-5

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	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 14:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 00:20	CH	XEN MID

Client Sample ID: PH02

Date Collected: 03/30/22 10:20
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-6

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			5.05 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 14:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 00:29	CH	XEN MID

Client Sample ID: PH02A

Date Collected: 03/30/22 10:35
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-7

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			4.99 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 15:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 14:39	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH02A
Date Collected: 03/30/22 10:35
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-7
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			4.96 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 00:37	CH	XEN MID

Client Sample ID: PH02B
Date Collected: 03/30/22 10:40
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 15:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 00:46	CH	XEN MID

Client Sample ID: PH02C
Date Collected: 03/30/22 10:45
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 15:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 00:55	CH	XEN MID

Client Sample ID: PH02D
Date Collected: 03/30/22 11:00
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 16:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 01:03	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03

Date Collected: 03/30/22 11:10
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 17:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 22:51	CH	XEN MID

Client Sample ID: PH03A

Date Collected: 03/30/22 11:30
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 08:56	CH	XEN MID

Client Sample ID: PH03B

Date Collected: 03/30/22 11:40
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 18:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 09:23	CH	XEN MID

Client Sample ID: PH03C

Date Collected: 03/30/22 11:50
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 18:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH03C
Date Collected: 03/30/22 11:50
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 09:31	CH	XEN MID

Client Sample ID: PH03D
Date Collected: 03/30/22 12:00
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 19:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 09:40	CH	XEN MID

Client Sample ID: PH04
Date Collected: 03/30/22 12:10
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 19:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 14:07	CH	XEN MID

Client Sample ID: PH04A
Date Collected: 03/30/22 12:30
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 18:35	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Client Sample ID: PH04A
Date Collected: 03/30/22 12:30
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:07	CH	XEN MID

Client Sample ID: PH04B
Date Collected: 03/30/22 12:40
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 20:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:16	CH	XEN MID

Client Sample ID: PH04C
Date Collected: 03/30/22 12:50
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 20:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 19:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:24	CH	XEN MID

Client Sample ID: PH04D
Date Collected: 03/30/22 13:00
Date Received: 04/01/22 09:40

Lab Sample ID: 890-2162-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22921	04/04/22 11:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22890	04/04/22 21:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23037	04/05/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22996	04/05/22 09:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22889	04/04/22 08:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22883	04/04/22 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:33	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 158 Battery

Job ID: 890-2162-1
SDG: 03C1558002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2162-1	PH01	Solid	03/30/22 09:30	04/01/22 09:40	1
890-2162-2	PH01A	Solid	03/30/22 09:50	04/01/22 09:40	3
890-2162-3	PH01B	Solid	03/30/22 10:00	04/01/22 09:40	4
890-2162-4	PH01C	Solid	03/30/22 10:10	04/01/22 09:40	5
890-2162-5	PH01D	Solid	03/30/22 10:15	04/01/22 09:40	6
890-2162-6	PH02	Solid	03/30/22 10:20	04/01/22 09:40	1
890-2162-7	PH02A	Solid	03/30/22 10:35	04/01/22 09:40	3
890-2162-8	PH02B	Solid	03/30/22 10:40	04/01/22 09:40	4
890-2162-9	PH02C	Solid	03/30/22 10:45	04/01/22 09:40	5
890-2162-10	PH02D	Solid	03/30/22 11:00	04/01/22 09:40	6
890-2162-11	PH03	Solid	03/30/22 11:10	04/01/22 09:40	1
890-2162-12	PH03A	Solid	03/30/22 11:30	04/01/22 09:40	3
890-2162-13	PH03B	Solid	03/30/22 11:40	04/01/22 09:40	4
890-2162-14	PH03C	Solid	03/30/22 11:50	04/01/22 09:40	5
890-2162-15	PH03D	Solid	03/30/22 12:00	04/01/22 09:40	6
890-2162-16	PH04	Solid	03/30/22 12:10	04/01/22 09:40	1
890-2162-17	PH04A	Solid	03/30/22 12:30	04/01/22 09:40	3
890-2162-18	PH04B	Solid	03/30/22 12:40	04/01/22 09:40	4
890-2162-19	PH04C	Solid	03/30/22 12:50	04/01/22 09:40	5
890-2162-20	PH04D	Solid	03/30/22 13:00	04/01/22 09:40	6

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: _____

Page 1 of 2

Project Manager:	Ben Belill	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum	Company Name:	XTO Energy, Inc.
Address:	2351 W Northwest Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0857	Email:	bbelill@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 158 Battery	Turn Around	☐ Routine ☒ Rush
Project Number:	03C1558002	Due Date:	3 DAY
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Ben Belill		
PO #:	nAPP2202534347		

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TW4007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8
Total Containers:		Corrected Temperature:	4.6

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chlorides	TPH	BTEX	Sample Comments
PH01	S	3/30/22	0930	1	G	1	X	X	X	Cost Center: 1081121001
PH01 A			0950	3						
PH01 B			1000	4						
PH01 C			1010	5						
PH01 D			1015	6						
PH02			1020	1						
PH02A			1035	3						
PH02 B			1040	4						
PH02 C			1045	5						
PH02D	↓	↓	1100	6	↓	↓	↓	↓	↓	

890-2162 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ben Belill	Cloe Cruz 4-1-22 0940	4/1/22 0940	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Chain of Custody

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

Work Order No: _____

Page 2 of 2

Project Manager:	Ben Belill	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum	Company Name:	XTO Energy, Inc.
Address:	2351 W Northwest Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0857 Email:	bbelill@ensolum.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 158 Battery	Turn Around	☐ Routine ☒ Rush
Project Number:	03C1558002	Due Date:	3 DAY
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Ben Belill		
PO #:	nAPP2202534347		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	RG	
Sample Custody Seals:	Yes No ~~N/A~~	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chlorides	TPH	BTEX	Sample Comments
PH03	S	3/30/22	1110	1	G	1	X	X	X	Cost Center: 1081121001
PH03A			1130	3						
PH03B			1140	4						
PH03C			1150	5						
PH03D			1200	6						
PH04			1210	1						
PH04A			1230	3						
PH04B			1240	4						
PH04C			1250	5						
PH04D	↓	↓	1300	6	↓	↓	↓	↓	↓	

ANALYSIS REQUEST

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	4-1-22 0940	4/1/22 0940	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2162-1
SDG Number: 03C1558002

Login Number: 2162
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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2162-1
SDG Number: 03C1558002

Login Number: 2162
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 04/04/22 07:46 AM

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

ENSOLUM

APPENDIX E

NMOCD Notifications

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 98975

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 98975
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is identified on the site map as "BH01". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	5/18/2022