

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.12406 Longitude -103.89609
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pierce Canyon 17 Tank Battery	Site Type Tank Battery
Date Release Discovered 11/30/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	17	25S	30E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 299.82	Volume Recovered (bbls) 294.00
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release LACTs failed to engage, causing tanks to hi-level and overflow to containment and pad. Tank hi-alarms were not triggered. Vacuum trucks recovered all free fluids. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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? A release equal to or greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Garrett Green to ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD on 12/1/2022 via email.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Garrett Green	Title: SSHE Coordinator
Signature: 	Date: 12/5/2022
email: garrett.green@exxonmobil.com	Telephone: 575-200-0729
<u>OCD Only</u> Received by: _____ Date: _____	

Location:	Pierce Canyon 17 TB	
Spill Date:	11/30/2022	
Area 1		
Approximate Area =	2513.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	295.12	bbls
Total Produced Water =	0.00	bbls
Area 2		
Approximate Area =	431.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	1.92	bbls
Total Produced Water =	0.00	bbls
Area 3		
Approximate Area =	6253.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	2.78	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	299.82	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	294.00	bbls
Total Produced Water =	0.00	bbls



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/8/2023 5:28:15 PM Revision 1

JOB DESCRIPTION

PLU PC 17 Battery
SDG NUMBER 03C1558215

JOB NUMBER

890-4586-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
5/8/2023 5:28:15 PM
Revision 1

Client: Ensolum
Project/Site: PLU PC 17 Battery

Laboratory Job ID: 890-4586-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Job ID: 890-4586-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4586-1**REVISION

The report being provided is a revision of the original report sent on 5/2/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

Receipt

The samples were received on 4/27/2023 8:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4586-1), SS02 (890-4586-2), SS03 (890-4586-3), SS04 (890-4586-4), SS05 (890-4586-5), SS06 (890-4586-6), SS07 (890-4586-7), SS08 (890-4586-8) and SS09 (890-4586-9).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-52197 and analytical batch 880-52230 recovered outside control limits for the following analytes: Benzene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52197 and analytical batch 880-52230 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (890-4586-3) and SS09 (890-4586-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-52197 and analytical batch 880-52230 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS04 (890-4586-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS03 (890-4586-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-52264 and analytical batch 880-52252 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-52254/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-52174/2-A) and (LCSD 880-52174/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4584-A-3-B), (890-4584-A-3-C MS)

Case Narrative

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Job ID: 890-4586-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and (890-4584-A-3-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4586-1), SS02 (890-4586-2), SS03 (890-4586-3), SS04 (890-4586-4), SS05 (890-4586-5), SS06 (890-4586-6), SS07 (890-4586-7), SS08 (890-4586-8) and SS09 (890-4586-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52174 and analytical batch 880-52247 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-52751 and analytical batch 880-52764 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-52751/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS06 (890-4586-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52208 and analytical batch 880-52332 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SS02 (890-4586-2), SS03 (890-4586-3), SS04 (890-4586-4), SS05 (890-4586-5), SS06 (890-4586-6), SS07 (890-4586-7), SS08 (890-4586-8), SS09 (890-4586-9), (890-4586-A-2-C MS) and (890-4586-A-2-D MSD).

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

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS01

Lab Sample ID: 890-4586-1

Date Collected: 04/26/23 13:15

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		04/28/23 10:16	04/28/23 22:04	1
Toluene	0.0158		0.00202	mg/Kg		04/28/23 10:16	04/28/23 22:04	1
Ethylbenzene	0.0253		0.00202	mg/Kg		04/28/23 10:16	04/28/23 22:04	1
m-Xylene & p-Xylene	0.153		0.00403	mg/Kg		04/28/23 10:16	04/28/23 22:04	1
o-Xylene	0.0547		0.00202	mg/Kg		04/28/23 10:16	04/28/23 22:04	1
Xylenes, Total	0.208		0.00403	mg/Kg		04/28/23 10:16	04/28/23 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	04/28/23 10:16	04/28/23 22:04	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/28/23 10:16	04/28/23 22:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.249		0.00403	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4480		50.0	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	262		50.0	mg/Kg		04/28/23 09:16	05/01/23 17:01	1
Diesel Range Organics (Over C10-C28)	4220		50.0	mg/Kg		04/28/23 09:16	05/01/23 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/23 09:16	05/01/23 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/28/23 09:16	05/01/23 17:01	1
o-Terphenyl	49	S1-	70 - 130	04/28/23 09:16	05/01/23 17:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.05	mg/Kg			05/01/23 16:48	1

Client Sample ID: SS02

Lab Sample ID: 890-4586-2

Date Collected: 04/26/23 13:20

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:08	1
Toluene	0.00218		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:08	1
Ethylbenzene	0.00560		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:08	1
m-Xylene & p-Xylene	0.00910		0.00401	mg/Kg		04/28/23 10:16	04/29/23 00:08	1
o-Xylene	0.0177		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:08	1
Xylenes, Total	0.0268		0.00401	mg/Kg		04/28/23 10:16	04/29/23 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	04/28/23 10:16	04/29/23 00:08	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS02

Lab Sample ID: 890-4586-2

Date Collected: 04/26/23 13:20

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	04/28/23 10:16	04/29/23 00:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0346		0.00401	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5480		49.8	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	137		49.8	mg/Kg		04/28/23 09:16	05/01/23 17:22	1
Diesel Range Organics (Over C10-C28)	5340		49.8	mg/Kg		04/28/23 09:16	05/01/23 17:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/28/23 09:16	05/01/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	04/28/23 09:16	05/01/23 17:22	1
o-Terphenyl	55	S1-	70 - 130	04/28/23 09:16	05/01/23 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480	F1	4.99	mg/Kg			05/01/23 16:53	1

Client Sample ID: SS03

Lab Sample ID: 890-4586-3

Date Collected: 04/26/23 13:25

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0387	*+	0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:29	1
Toluene	0.804		0.0998	mg/Kg		05/01/23 09:43	05/02/23 02:31	50
Ethylbenzene	0.189		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:29	1
m-Xylene & p-Xylene	8.42		0.200	mg/Kg		05/01/23 09:43	05/02/23 02:31	50
o-Xylene	0.279		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:29	1
Xylenes, Total	11.1		0.200	mg/Kg		05/01/23 09:43	05/02/23 02:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/28/23 10:16	04/29/23 00:29	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/28/23 10:16	04/29/23 00:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.73		0.200	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3890		49.9	mg/Kg			05/02/23 09:55	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS03

Lab Sample ID: 890-4586-3

Date Collected: 04/26/23 13:25

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	373		49.9	mg/Kg		04/28/23 09:16	05/01/23 17:44	1
Diesel Range Organics (Over C10-C28)	3520		49.9	mg/Kg		04/28/23 09:16	05/01/23 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			04/28/23 09:16	05/01/23 17:44	1
o-Terphenyl	45	S1-	70 - 130			04/28/23 09:16	05/01/23 17:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.3		4.98	mg/Kg			05/01/23 17:09	1

Client Sample ID: SS04

Lab Sample ID: 890-4586-4

Date Collected: 04/26/23 13:30

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
Toluene	0.0776		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
Ethylbenzene	0.0855		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
m-Xylene & p-Xylene	0.525		0.00401	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
o-Xylene	0.171		0.00200	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
Xylenes, Total	0.696		0.00401	mg/Kg		04/28/23 10:16	04/29/23 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130			04/28/23 10:16	04/29/23 00:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/28/23 10:16	04/29/23 00:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.859		0.00401	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3980		50.0	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	615		50.0	mg/Kg		04/28/23 09:16	05/01/23 18:06	1
Diesel Range Organics (Over C10-C28)	3360		50.0	mg/Kg		04/28/23 09:16	05/01/23 18:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/23 09:16	05/01/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			04/28/23 09:16	05/01/23 18:06	1
o-Terphenyl	52	S1-	70 - 130			04/28/23 09:16	05/01/23 18:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS04

Lab Sample ID: 890-4586-4

Date Collected: 04/26/23 13:30

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9		4.97	mg/Kg			05/01/23 17:15	1

Client Sample ID: SS05

Lab Sample ID: 890-4586-5

Date Collected: 04/26/23 13:35

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
Toluene	0.0160		0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
m-Xylene & p-Xylene	0.00793		0.00398	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
o-Xylene	0.00383		0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
Xylenes, Total	0.0118		0.00398	mg/Kg		04/28/23 10:16	04/29/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/28/23 10:16	04/29/23 01:10	1
1,4-Difluorobenzene (Surr)	80		70 - 130			04/28/23 10:16	04/29/23 01:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0278		0.00398	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4580		49.8	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	662		49.8	mg/Kg		04/28/23 09:16	05/01/23 18:27	1
Diesel Range Organics (Over C10-C28)	3920		49.8	mg/Kg		04/28/23 09:16	05/01/23 18:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/28/23 09:16	05/01/23 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			04/28/23 09:16	05/01/23 18:27	1
o-Terphenyl	51	S1-	70 - 130			04/28/23 09:16	05/01/23 18:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		5.01	mg/Kg			05/01/23 17:31	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS06

Lab Sample ID: 890-4586-6

Date Collected: 04/26/23 13:40

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/28/23 10:16	04/29/23 01:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/28/23 10:16	04/29/23 01:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/28/23 10:16	04/29/23 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/28/23 10:16	04/29/23 01:30	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/28/23 10:16	04/29/23 01:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 17:12	05/06/23 23:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 17:12	05/06/23 23:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 17:12	05/06/23 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	05/05/23 17:12	05/06/23 23:19	1
o-Terphenyl	133	S1+	70 - 130	05/05/23 17:12	05/06/23 23:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0		5.04	mg/Kg			05/01/23 17:36	1

Client Sample ID: SS07

Lab Sample ID: 890-4586-7

Date Collected: 04/26/23 13:45

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201	mg/Kg		04/28/23 10:16	04/29/23 01:51	1
Toluene	0.00204		0.00201	mg/Kg		04/28/23 10:16	04/29/23 01:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/28/23 10:16	04/29/23 01:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/28/23 10:16	04/29/23 01:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/28/23 10:16	04/29/23 01:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/28/23 10:16	04/29/23 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/28/23 10:16	04/29/23 01:51	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS07

Lab Sample ID: 890-4586-7

Date Collected: 04/26/23 13:45

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	04/28/23 10:16	04/29/23 01:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.1		49.9	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 19:11	1
Diesel Range Organics (Over C10-C28)	51.1		49.9	mg/Kg		04/28/23 09:16	05/01/23 19:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130			04/28/23 09:16	05/01/23 19:11	1
o-Terphenyl	52	S1-	70 - 130			04/28/23 09:16	05/01/23 19:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.6		5.00	mg/Kg			05/01/23 17:42	1

Client Sample ID: SS08

Lab Sample ID: 890-4586-8

Date Collected: 04/26/23 14:20

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		04/28/23 10:16	04/29/23 02:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/28/23 10:16	04/29/23 02:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/28/23 10:16	04/29/23 02:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/28/23 10:16	04/29/23 02:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/28/23 10:16	04/29/23 02:11	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/28/23 10:16	04/29/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/28/23 10:16	04/29/23 02:11	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/28/23 10:16	04/29/23 02:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/02/23 09:55	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS08

Lab Sample ID: 890-4586-8

Date Collected: 04/26/23 14:20

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/28/23 09:16	05/01/23 19:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/28/23 09:16	05/01/23 19:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/28/23 09:16	05/01/23 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			04/28/23 09:16	05/01/23 19:32	1
o-Terphenyl	63	S1-	70 - 130			04/28/23 09:16	05/01/23 19:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		5.05	mg/Kg			05/01/23 17:47	1

Client Sample ID: SS09

Lab Sample ID: 890-4586-9

Date Collected: 04/26/23 14:50

Matrix: Solid

Date Received: 04/27/23 08:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00447	*+	0.00200	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
Toluene	0.0193		0.00200	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
Ethylbenzene	0.0261		0.00200	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
m-Xylene & p-Xylene	0.140		0.00399	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
o-Xylene	0.0420		0.00200	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
Xylenes, Total	0.182		0.00399	mg/Kg		04/28/23 10:16	04/29/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			04/28/23 10:16	04/29/23 02:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/28/23 10:16	04/29/23 02:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.232		0.00399	mg/Kg			05/01/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 19:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 19:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/28/23 09:16	05/01/23 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			04/28/23 09:16	05/01/23 19:54	1
o-Terphenyl	61	S1-	70 - 130			04/28/23 09:16	05/01/23 19:54	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS09
Date Collected: 04/26/23 14:50
Date Received: 04/27/23 08:12
Sample Depth: 0.5'

Lab Sample ID: 890-4586-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	319		5.02	mg/Kg			05/01/23 17:52	1	

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

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-27756-A-1-B MS	Matrix Spike	111	107
880-27756-A-1-C MSD	Matrix Spike Duplicate	107	108
890-4585-A-1-A MS	Matrix Spike	125	106
890-4585-A-1-B MSD	Matrix Spike Duplicate	123	101
890-4586-1	SS01	130	104
890-4586-2	SS02	125	93
890-4586-3	SS03	141 S1+	107
890-4586-4	SS04	183 S1+	100
890-4586-5	SS05	109	80
890-4586-6	SS06	102	87
890-4586-7	SS07	106	84
890-4586-8	SS08	110	80
890-4586-9	SS09	146 S1+	103
LCS 880-52197/1-A	Lab Control Sample	104	106
LCS 880-52264/1-A	Lab Control Sample	101	104
LCSD 880-52197/2-A	Lab Control Sample Dup	103	105
LCSD 880-52264/2-A	Lab Control Sample Dup	110	105
MB 880-52197/5-A	Method Blank	68 S1-	90
MB 880-52254/5-A	Method Blank	68 S1-	91
MB 880-52264/5-A	Method Blank	66 S1-	78

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)
890-4545-A-32-D MS	Matrix Spike	114	115
890-4545-A-32-E MSD	Matrix Spike Duplicate	115	120
890-4584-A-3-C MS	Matrix Spike	84	61 S1-
890-4584-A-3-D MSD	Matrix Spike Duplicate	88	63 S1-
890-4586-1	SS01	88	49 S1-
890-4586-2	SS02	85	55 S1-
890-4586-3	SS03	80	45 S1-
890-4586-4	SS04	96	52 S1-
890-4586-5	SS05	121	51 S1-
890-4586-6	SS06	118	133 S1+
890-4586-7	SS07	70	52 S1-
890-4586-8	SS08	84	63 S1-
890-4586-9	SS09	82	61 S1-
LCS 880-52174/2-A	Lab Control Sample	82	61 S1-
LCS 880-52751/2-A	Lab Control Sample	120	131 S1+
LCSD 880-52174/3-A	Lab Control Sample Dup	84	62 S1-
LCSD 880-52751/3-A	Lab Control Sample Dup	112	120
MB 880-52174/1-A	Method Blank	100	83
MB 880-52751/1-A	Method Blank	148 S1+	188 S1+

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Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52197/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 52230					Prep Batch: 52197				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Factor	
Benzene	<0.00200	U	0.00200	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
Toluene	<0.00200	U	0.00200	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/28/23 10:16	04/28/23 19:19	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Factor	
4-Bromofluorobenzene (Surr)	13	S0-	7/ - 02/			/ 48 38 2 0/,01	/ 48 38 2 06,06	0	
0,0-Difluorobenzene (Surr)	6/		7/ - 02/			/ 48 38 2 0/,01	/ 48 38 2 06,06	0	

Lab Sample ID: LCS 880-52197/1-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 52230						Prep Batch: 52197			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1222		mg/Kg		122	70 - 130
Toluene			0.100	0.1157		mg/Kg		116	70 - 130
Ethylbenzene			0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene			0.200	0.2224		mg/Kg		111	70 - 130
o-Xylene			0.100	0.1091		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	0/ 4		7/ - 02/						
0,0-Difluorobenzene (Surr)	0/ 1		7/ - 02/						

Lab Sample ID: LCSD 880-52197/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 52230						Prep Batch: 52197				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene			0.100	0.1328	*+	mg/Kg		133	70 - 130	8 35
Toluene			0.100	0.1250		mg/Kg		125	70 - 130	8 35
Ethylbenzene			0.100	0.1216		mg/Kg		122	70 - 130	10 35
m-Xylene & p-Xylene			0.200	0.2482		mg/Kg		124	70 - 130	11 35
o-Xylene			0.100	0.1216		mg/Kg		122	70 - 130	11 35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	0/ 2		7/ - 02/							
0,0-Difluorobenzene (Surr)	0/ h		7/ - 02/							

Lab Sample ID: 890-4585-A-1-A MS						Client Sample ID: Matrix Spike			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 52230						Prep Batch: 52197			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *+ F1	0.0998	0.04593	F1	mg/Kg		46	70 - 130
Toluene	<0.00199	U F1	0.0998	0.02559	F1	mg/Kg		25	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: 890-4585-A-1-A MS

Matrix: Solid

Analysis Batch: 52230

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.01843	F1	mg/Kg		18	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.03697	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0998	0.01924	F1	mg/Kg		18	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	0: h		7/ - 02/
0,4-di Fluorobenzene (Surr)	0/ 1		7/ - 02/

Lab Sample ID: 890-4585-A-1-B MSD

Matrix: Solid

Analysis Batch: 52230

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U *+ F1	0.100	0.03847	F1	mg/Kg		38	70 - 130	18	35
Toluene	<0.00199	U F1	0.100	0.02095	F1	mg/Kg		20	70 - 130	20	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.01137	F2 F1	mg/Kg		11	70 - 130	47	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.02460	F2 F1	mg/Kg		12	70 - 130	40	35
o-Xylene	<0.00199	U F2 F1	0.100	0.01331	F2 F1	mg/Kg		12	70 - 130	36	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	0: 2		7/ - 02/
0,4-di Fluorobenzene (Surr)	0/ 0		7/ - 02/

Lab Sample ID: MB 880-52254/5-A

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52254

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:09	05/01/23 11:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:09	05/01/23 11:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:09	05/01/23 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/01/23 09:09	05/01/23 11:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:09	05/01/23 11:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/01/23 09:09	05/01/23 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	13	S0-	7/ - 02/	/ h8 08 2 / 6, / 6	/ h8 08 2 00, / 1	0
0,4-di Fluorobenzene (Surr)	60		7/ - 02/	/ h8 08 2 / 6, / 6	/ h8 08 2 00, / 1	0

Lab Sample ID: MB 880-52264/5-A

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52264

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:43	05/01/23 21:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:43	05/01/23 21:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:43	05/01/23 21:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/01/23 09:43	05/01/23 21:43	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-52264/5-A

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52264

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 09:43	05/01/23 21:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/01/23 09:43	05/01/23 21:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11	S0-	7/ - 02/	/ h8 08 2 / 6,42	/ h8 08 2 : 0,42	0
0,4-di Fluorobenzene (Surr)	73		7/ - 02/	/ h8 08 2 / 6,42	/ h8 08 2 : 0,42	0

Lab Sample ID: LCS 880-52264/1-A

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1156		mg/Kg		116	70 - 130
Toluene	0.100	0.1027		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	0/ 0		7/ - 02/
0,4-di Fluorobenzene (Surr)	0/ 4		7/ - 02/

Lab Sample ID: LCSD 880-52264/2-A

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	1	35
Toluene	0.100	0.1109		mg/Kg		111	70 - 130	8	35
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2364		mg/Kg		118	70 - 130	15	35
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	00/		7/ - 02/
0,4-di Fluorobenzene (Surr)	0/ h		7/ - 02/

Lab Sample ID: 880-27756-A-1-B MS

Matrix: Solid

Analysis Batch: 52252

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.1129		mg/Kg		113	70 - 130
Toluene	<0.00199	U	0.0998	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.1070		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2147		mg/Kg		108	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1058		mg/Kg		106	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: 880-27756-A-1-B MS
Matrix: Solid
Analysis Batch: 52252

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 52264

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	000		7/ - 02/
000-i Fluorobenzene (Surr)	0/ 7		7/ - 02/

Lab Sample ID: 880-27756-A-1-C MSD
Matrix: Solid
Analysis Batch: 52252

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 52264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1131		mg/Kg		113	70 - 130	0	35
Toluene	<0.00199	U	0.100	0.09655		mg/Kg		96	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.100	0.09978		mg/Kg		100	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2002		mg/Kg		100	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.09845		mg/Kg		98	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	0/ 7		7/ - 02/
000-i Fluorobenzene (Surr)	0/ 3		7/ - 02/

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

Lab Sample ID: MB 880-52174/1-A
Matrix: Solid
Analysis Batch: 52247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52174

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/28/23 09:16	05/01/23 08:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/28/23 09:16	05/01/23 08:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/23 09:16	05/01/23 08:56	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
0-c t l o r o o a s s e	0/ 1		7/ - 02/	/ 48 38 2 / 6,01	/ h 8 08 2 / 3,h1	0
o-Terpt enyl	32		7/ - 02/	/ 48 38 2 / 6,01	/ h 8 08 2 / 3,h1	0

Lab Sample ID: LCS 880-52174/2-A
Matrix: Solid
Analysis Batch: 52247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	986.5		mg/Kg		99	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
0-c t l o r o o a s s e	3:		7/ - 02/
o-Terpt enyl	10 S0-		7/ - 02/

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-52174/3-A

Matrix: Solid

Analysis Batch: 52247

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52174

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1051		mg/Kg		105	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1041		mg/Kg		104	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
O-c t l o r o o a s s e	34		7/ - 02/						
o-Terpt enyl	1	S0-	7/ - 02/						

Lab Sample ID: 890-4584-A-3-C MS

Matrix: Solid

Analysis Batch: 52247

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	719.5		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	594.8	F1	mg/Kg		58	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
O-c t l o r o o a s s e	34		7/ - 02/								
o-Terpt enyl	10	S0-	7/ - 02/								

Lab Sample ID: 890-4584-A-3-D MSD

Matrix: Solid

Analysis Batch: 52247

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	765.4		mg/Kg		74	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	618.1	F1	mg/Kg		60	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
O-c t l o r o o a s s e	33		7/ - 02/								
o-Terpt enyl	12	S0-	7/ - 02/								

Lab Sample ID: MB 880-52751/1-A

Matrix: Solid

Analysis Batch: 52764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52751

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		05/05/23 17:12	05/06/23 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 17:12	05/06/23 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 17:12	05/06/23 19:51	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-52751/1-A

Matrix: Solid

Analysis Batch: 52764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52751

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>O-c t l o r o o a n e</i>	043	S0+	7/ - 02/	/ h 8 h 8 2 07,0:	/ h 8 18 2 06,h0	0
<i>o-Terpt enyl</i>	033	S0+	7/ - 02/	/ h 8 h 8 2 07,0:	/ h 8 18 2 06,h0	0

Lab Sample ID: LCS 880-52751/2-A

Matrix: Solid

Analysis Batch: 52764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	986.2		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.2		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>O-c t l o r o o a n e</i>	0: /		7/ - 02/
<i>o-Terpt enyl</i>	020	S0+	7/ - 02/

Lab Sample ID: LCSD 880-52751/3-A

Matrix: Solid

Analysis Batch: 52764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	963.0		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>O-c t l o r o o a n e</i>	00:		7/ - 02/
<i>o-Terpt enyl</i>	0: /		7/ - 02/

Lab Sample ID: 890-4545-A-32-D MS

Matrix: Solid

Analysis Batch: 52764

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52751

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1080		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1089		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>O-c t l o r o o a n e</i>	004		7/ - 02/
<i>o-Terpt enyl</i>	00h		7/ - 02/

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Lab Sample ID: 890-4545-A-32-E MSD						Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid						Prep Type: Total/NA						
Analysis Batch: 52764						Prep Batch: 52751						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1133		mg/Kg		111	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1100		mg/Kg		107	70 - 130	1	20	
	MSD Result	MSD Qualifier										
Surrogate	%Recovery	Qualifier	Limits									
O-c t l o r o o a s e	00h		7/ - 02/									
o-Terpt enyl	0: /		7/ - 02/									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52208/1-A						Client Sample ID: Method Blank						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52332												
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U	5.00	mg/Kg			05/01/23 15:22	1				

Lab Sample ID: LCS 880-52208/2-A						Client Sample ID: Lab Control Sample						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52332												
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	232.7		mg/Kg		93	90 - 110			

Lab Sample ID: LCSD 880-52208/3-A						Client Sample ID: Lab Control Sample Dup						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52332												
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride			250	234.3		mg/Kg		94	90 - 110	1	20	

Lab Sample ID: 890-4586-2 MS						Client Sample ID: SS02						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52332												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	480	F1	250	682.2	F1	mg/Kg		81	90 - 110			

Lab Sample ID: 890-4586-2 MSD						Client Sample ID: SS02						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52332												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	480	F1	250	683.6	F1	mg/Kg		82	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

GC VOA

Prep Batch: 52197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	5035	
890-4586-2	SS02	Total/NA	Solid	5035	
890-4586-3	SS03	Total/NA	Solid	5035	
890-4586-4	SS04	Total/NA	Solid	5035	
890-4586-5	SS05	Total/NA	Solid	5035	
890-4586-6	SS06	Total/NA	Solid	5035	
890-4586-7	SS07	Total/NA	Solid	5035	
890-4586-8	SS08	Total/NA	Solid	5035	
890-4586-9	SS09	Total/NA	Solid	5035	
MB 880-52197/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52197/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52197/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4585-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4585-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	8021B	52197
890-4586-2	SS02	Total/NA	Solid	8021B	52197
890-4586-3	SS03	Total/NA	Solid	8021B	52197
890-4586-4	SS04	Total/NA	Solid	8021B	52197
890-4586-5	SS05	Total/NA	Solid	8021B	52197
890-4586-6	SS06	Total/NA	Solid	8021B	52197
890-4586-7	SS07	Total/NA	Solid	8021B	52197
890-4586-8	SS08	Total/NA	Solid	8021B	52197
890-4586-9	SS09	Total/NA	Solid	8021B	52197
MB 880-52197/5-A	Method Blank	Total/NA	Solid	8021B	52197
LCS 880-52197/1-A	Lab Control Sample	Total/NA	Solid	8021B	52197
LCSD 880-52197/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52197
890-4585-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	52197
890-4585-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52197

Analysis Batch: 52252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-3	SS03	Total/NA	Solid	8021B	52264
MB 880-52254/5-A	Method Blank	Total/NA	Solid	8021B	52254
MB 880-52264/5-A	Method Blank	Total/NA	Solid	8021B	52264
LCS 880-52264/1-A	Lab Control Sample	Total/NA	Solid	8021B	52264
LCSD 880-52264/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52264
880-27756-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	52264
880-27756-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52264

Prep Batch: 52254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52254/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 52264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-3	SS03	Total/NA	Solid	5035	
MB 880-52264/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52264/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

GC VOA (Continued)

Prep Batch: 52264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-52264/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27756-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-27756-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	Total BTEX	
890-4586-2	SS02	Total/NA	Solid	Total BTEX	
890-4586-3	SS03	Total/NA	Solid	Total BTEX	
890-4586-4	SS04	Total/NA	Solid	Total BTEX	
890-4586-5	SS05	Total/NA	Solid	Total BTEX	
890-4586-6	SS06	Total/NA	Solid	Total BTEX	
890-4586-7	SS07	Total/NA	Solid	Total BTEX	
890-4586-8	SS08	Total/NA	Solid	Total BTEX	
890-4586-9	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 52174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	8015NM Prep	
890-4586-2	SS02	Total/NA	Solid	8015NM Prep	
890-4586-3	SS03	Total/NA	Solid	8015NM Prep	
890-4586-4	SS04	Total/NA	Solid	8015NM Prep	
890-4586-5	SS05	Total/NA	Solid	8015NM Prep	
890-4586-7	SS07	Total/NA	Solid	8015NM Prep	
890-4586-8	SS08	Total/NA	Solid	8015NM Prep	
890-4586-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-52174/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52174/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52174/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4584-A-3-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4584-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	8015B NM	52174
890-4586-2	SS02	Total/NA	Solid	8015B NM	52174
890-4586-3	SS03	Total/NA	Solid	8015B NM	52174
890-4586-4	SS04	Total/NA	Solid	8015B NM	52174
890-4586-5	SS05	Total/NA	Solid	8015B NM	52174
890-4586-7	SS07	Total/NA	Solid	8015B NM	52174
890-4586-8	SS08	Total/NA	Solid	8015B NM	52174
890-4586-9	SS09	Total/NA	Solid	8015B NM	52174
MB 880-52174/1-A	Method Blank	Total/NA	Solid	8015B NM	52174
LCS 880-52174/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52174
LCSD 880-52174/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52174
890-4584-A-3-C MS	Matrix Spike	Total/NA	Solid	8015B NM	52174
890-4584-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52174

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 52374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Total/NA	Solid	8015 NM	
890-4586-2	SS02	Total/NA	Solid	8015 NM	
890-4586-3	SS03	Total/NA	Solid	8015 NM	
890-4586-4	SS04	Total/NA	Solid	8015 NM	
890-4586-5	SS05	Total/NA	Solid	8015 NM	
890-4586-6	SS06	Total/NA	Solid	8015 NM	
890-4586-7	SS07	Total/NA	Solid	8015 NM	
890-4586-8	SS08	Total/NA	Solid	8015 NM	
890-4586-9	SS09	Total/NA	Solid	8015 NM	

Prep Batch: 52751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-52751/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52751/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4545-A-32-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4545-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-6	SS06	Total/NA	Solid	8015B NM	52751
MB 880-52751/1-A	Method Blank	Total/NA	Solid	8015B NM	52751
LCS 880-52751/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52751
LCSD 880-52751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52751
890-4545-A-32-D MS	Matrix Spike	Total/NA	Solid	8015B NM	52751
890-4545-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52751

HPLC/IC

Leach Batch: 52208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Soluble	Solid	DI Leach	
890-4586-2	SS02	Soluble	Solid	DI Leach	
890-4586-3	SS03	Soluble	Solid	DI Leach	
890-4586-4	SS04	Soluble	Solid	DI Leach	
890-4586-5	SS05	Soluble	Solid	DI Leach	
890-4586-6	SS06	Soluble	Solid	DI Leach	
890-4586-7	SS07	Soluble	Solid	DI Leach	
890-4586-8	SS08	Soluble	Solid	DI Leach	
890-4586-9	SS09	Soluble	Solid	DI Leach	
MB 880-52208/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52208/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52208/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4586-2 MS	SS02	Soluble	Solid	DI Leach	
890-4586-2 MSD	SS02	Soluble	Solid	DI Leach	

Analysis Batch: 52332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-1	SS01	Soluble	Solid	300.0	52208
890-4586-2	SS02	Soluble	Solid	300.0	52208

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

HPLC/IC (Continued)

Analysis Batch: 52332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4586-3	SS03	Soluble	Solid	300.0	52208
890-4586-4	SS04	Soluble	Solid	300.0	52208
890-4586-5	SS05	Soluble	Solid	300.0	52208
890-4586-6	SS06	Soluble	Solid	300.0	52208
890-4586-7	SS07	Soluble	Solid	300.0	52208
890-4586-8	SS08	Soluble	Solid	300.0	52208
890-4586-9	SS09	Soluble	Solid	300.0	52208
MB 880-52208/1-A	Method Blank	Soluble	Solid	300.0	52208
LCS 880-52208/2-A	Lab Control Sample	Soluble	Solid	300.0	52208
LCSD 880-52208/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52208
890-4586-2 MS	SS02	Soluble	Solid	300.0	52208
890-4586-2 MSD	SS02	Soluble	Solid	300.0	52208

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS01

Date Collected: 04/26/23 13:15

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/28/23 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 17:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 16:48	SMC	EET MID

Client Sample ID: SS02

Date Collected: 04/26/23 13:20

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 16:53	SMC	EET MID

Client Sample ID: SS03

Date Collected: 04/26/23 13:25

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-3

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			5.00 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 00:29	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	52264	05/01/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	52252	05/02/23 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:09	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS04

Date Collected: 04/26/23 13:30

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:15	SMC	EET MID

Client Sample ID: SS05

Date Collected: 04/26/23 13:35

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-5

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	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:31	SMC	EET MID

Client Sample ID: SS06

Date Collected: 04/26/23 13:40

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52751	05/05/23 17:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52764	05/06/23 23:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:36	SMC	EET MID

Client Sample ID: SS07

Date Collected: 04/26/23 13:45

Date Received: 04/27/23 08:12

Lab Sample ID: 890-4586-7

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			4.97 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 01:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Client Sample ID: SS07**Date Collected: 04/26/23 13:45****Date Received: 04/27/23 08:12****Lab Sample ID: 890-4586-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:42	SMC	EET MID

Client Sample ID: SS08**Date Collected: 04/26/23 14:20****Date Received: 04/27/23 08:12****Lab Sample ID: 890-4586-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 19:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:47	SMC	EET MID

Client Sample ID: SS09**Date Collected: 04/26/23 14:50****Date Received: 04/27/23 08:12****Lab Sample ID: 890-4586-9****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			5.01 g	5 mL	52197	04/28/23 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52230	04/29/23 02:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52267	05/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			52374	05/02/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52174	04/28/23 09:16	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52247	05/01/23 19:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52208	04/28/23 11:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52332	05/01/23 17:52	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-4586-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4586-1	SS01	Solid	04/26/23 13:15	04/27/23 08:12	0.5'
890-4586-2	SS02	Solid	04/26/23 13:20	04/27/23 08:12	0.5'
890-4586-3	SS03	Solid	04/26/23 13:25	04/27/23 08:12	0.5'
890-4586-4	SS04	Solid	04/26/23 13:30	04/27/23 08:12	0.5'
890-4586-5	SS05	Solid	04/26/23 13:35	04/27/23 08:12	0.5'
890-4586-6	SS06	Solid	04/26/23 13:40	04/27/23 08:12	0.5'
890-4586-7	SS07	Solid	04/26/23 13:45	04/27/23 08:12	0.5'
890-4586-8	SS08	Solid	04/26/23 14:20	04/27/23 08:12	0.5'
890-4586-9	SS09	Solid	04/26/23 14:50	04/27/23 08:12	0.5'



Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704 8440, 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

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@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 PC 17 Battery	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	03C1558215	Due Date:	3 Day		
Project Location:	32.12406, -103.89609	TAT starts the day received by the lab. If received by 4:30pm			
Sampler's Name:	Ronni Hayes				
Cost Center #:	1081061001				
SAMPLE RECEIPT	Temp Blank: ☒ No ☒ Yes	Wet Ice: ☒ No ☒ Yes			
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	TM-007		
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.3		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	3.1		
Total Containers:		Corrected Temperature:	3.4		



890-4586 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST										Preservative Codes		Sample Comments
							CHLORIDES (EPA: 300.0)	BTEX	TPH								None: NO	DI Water: H ₂ O	
SS01	S	4/26/2023	1315	0.5'	Grab	1	X	X	X								Cool: Cool	MeOH: Me	
SS02	S	4/26/2023	1320	0.5'	Grab	1	X	X	X								HCL: HC	HNO ₃ : HN	
SS03	S	4/26/2023	1325	0.5'	Grab	1	X	X	X								H ₂ SO ₄ : H ₂	NaOH: Na	
SS04	S	4/26/2023	1330	0.5'	Grab	1	X	X	X								H ₃ PO ₄ : HP		
SS05	S	4/26/2023	1335	0.5'	Grab	1	X	X	X								NaHSO ₄ : NABIS		
SS06	S	4/26/2023	1340	0.5'	Grab	1	X	X	X								Na ₂ S ₂ O ₃ : NaSO ₃		
SS07	S	4/26/2023	1345	0.5'	Grab	1	X	X	X								Zn Acetate+NaOH: Zn		
SS08	S	4/26/2023	1420	0.5'	Grab	1	X	X	X								NaOH+Ascorbic Acid: SAPC		
SS09	S	4/26/2023	1450	0.5'	Grab	1	X	X	X										

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Phdm</i>	<i>Amanda Bell</i>	4/27/23 08:00			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4586-1

SDG Number: 03C1558215

Login Number: 4586

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4586-1

SDG Number: 03C1558215

Login Number: 4586

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/28/23 10:06 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/1/2023 10:02:53 AM Revision 1

JOB DESCRIPTION

PLU Pierce Canyon 17
SDG NUMBER 03C1558215

JOB NUMBER

890-4673-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
6/1/2023 10:02:53 AM
Revision 1

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Laboratory Job ID: 890-4673-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
r joæ/ t\$ite: r U7 r iej/ e CBnaon P6

Job ID: 890-4561-P
LDy : 01CPG33PG

Job ID: 890-4673-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4673-1

2 ERILIVO

NTe jehojt beinp hjogivev is Bjegision odtTe ojipinBl jehojt sent on G3P3031f NTe jehojt .jegision P(is beinp jegisev vue to r ej /lient emBil) je, uestinp je junsf

Receipt

NTe sBmhles q eje je/ eigev on G3P3031 8:11 Hwf 7 nless otTejq ise notev beloq) tTe sBmhles Bjjigev in poov / onvition) Bnv) q Teje je, uijev) hjohejla hjesejgev Bnv on i/ ef NTe temhejBtuje odtTe / oolej Bt je/ eht time q Bs 3f8AC

Receipt Exceptions

NTe dloq inp sBmhles q eje je/ eigev Bnv BnBlamEv dñom Bn unhjesejgev bul° soil dñ: z k 0P .890-4561-P(Bnv z k 0PH .890-4561-3(f

GC VOA

wetTov 803Pz : NTe mBtjix shi° e SmBtjix shi° e vuhli/ Bte .wL\$wLD(je/ ogejies dñj hjeBjBtion bBt/ T 880-G189GBnv BnBlati/ Bl bBt/ T 880-G4P36 q eje outsive / ontjol limits dñj one oj moje BnBlatesf Lee QC L Bmhle 2 esults dñj vetBilf L Bmhle mBtjix intej dñjen/ e Bnv\$ñj non-Tomopeneita Bje sushe/ tev be/ Buse tTe Bssso/ iBtev IBbojBtoja / ontjol sBmhle .UCL (je/ ogeja is q itTin B/ / ehtBn/ e limitsf

wetTov 803Pz : LujjopBte je/ ogeja dñj tTe dloq inp sBmhle q Bs outsive / ontjol limits: z k 0P .890-4561-P(f Egiven/ e odmBtjix intej dñjen/ e is hjesent; tTejedñje) je-extj B/ tion Bnv\$ñj je-BnBlasis q Bs not hej dñj mevf

Oo BvvitionBl BnBlati/ Bl oj , uBlita issues q eje notev) otTej tTBn tTose ves/ jibev Bboge oj in tTe DednitionsSy lossBja hBpef

GC Semi VOA

wetTov 80PGwVD_Ow: NTe sujjoBte je/ ogeja dñj tTe blBn° Bssso/ iBtev q itT hjeBjBtion bBt/ T 880-G1630 Bnv BnBlati/ Bl bBt/ T 880-G16PG q Bs outsive tTe uhhej / ontjol limitsf

Oo BvvitionBl BnBlati/ Bl oj , uBlita issues q eje notev) otTej tTBn tTose ves/ jibev Bboge oj in tTe DednitionsSy lossBja hBpef

HPLC/IC

wetTov 100_V2y Fw_38D: NTe mBtjix shi° e SmBtjix shi° e vuhli/ Bte .wL\$wLD(je/ ogejies Bnv hje/ ision dñj hjeBjBtion bBt/ T 880-G44P8 Bnv 880-G44P8 Bnv BnBlati/ Bl bBt/ T 880-G4489 q eje outsive / ontjol limitsf L Bmhle mBtjix intej dñjen/ e Bnv\$ñj non-Tomopeneita Bje sushe/ tev be/ Buse tTe Bssso/ iBtev IBbojBtoja / ontjol sBmhle \$IBbojBtoja sBmhle / ontjol vuhli/ Bte .UCL \$UCLD(hje/ ision q Bs q itTin B/ / ehtBn/ e limitsf

Oo BvvitionBl BnBlati/ Bl oj , uBlita issues q eje notev) otTej tTBn tTose ves/ jibev Bboge oj in tTe DednitionsSy lossBja hBpef

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Client Sample ID: BH01

Lab Sample ID: 890-4673-1

Date Collected: 05/16/23 13:35

Matrix: Solid

Date Received: 05/17/23 08:33

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.484		0.199	mg/Kg		05/30/23 09:40	05/30/23 14:56	100
Toluene	4.94		0.199	mg/Kg		05/30/23 09:40	05/30/23 14:56	100
Ethylbenzene	2.89		0.199	mg/Kg		05/30/23 09:40	05/30/23 14:56	100
m-Xylene & p-Xylene	9.76		0.398	mg/Kg		05/30/23 09:40	05/30/23 14:56	100
o-Xylene	1.26		0.199	mg/Kg		05/30/23 09:40	05/30/23 14:56	100
Xylenes, Total	11.0		0.398	mg/Kg		05/30/23 09:40	05/30/23 14:56	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130	S17	/ 2 - 182	2: 05/26/23 08:21	2: 05/26/23 14:10	122
1,4-difluorobenzene (Surr)	11:		/ 2 - 182	2: 05/26/23 08:21	2: 05/26/23 14:10	122

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	19.3		0.398	mg/Kg			05/31/23 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3650		49.9	mg/Kg			05/22/23 09:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	795		49.9	mg/Kg		05/19/23 07:57	05/19/23 12:42	1
Diesel Range Organics (Over C10-C28)	2850		49.9	mg/Kg		05/19/23 07:57	05/19/23 12:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/19/23 07:57	05/19/23 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-dibromobenzene	118		/ 2 - 182	2: 05/19/23 08:21	2: 05/19/23 14:10	1
o-pentachlorobenzene	D3		/ 2 - 182	2: 05/19/23 08:21	2: 05/19/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.98	mg/Kg			05/21/23 17:26	1

Client Sample ID: BH01A

Lab Sample ID: 890-4673-2

Date Collected: 05/16/23 13:45

Matrix: Solid

Date Received: 05/17/23 08:33

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398	mg/Kg		05/22/23 14:03	05/26/23 02:17	20
Toluene	0.0478		0.0398	mg/Kg		05/22/23 14:03	05/26/23 02:17	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		05/22/23 14:03	05/26/23 02:17	20
m-Xylene & p-Xylene	0.0834		0.0795	mg/Kg		05/22/23 14:03	05/26/23 02:17	20
o-Xylene	<0.0398	U	0.0398	mg/Kg		05/22/23 14:03	05/26/23 02:17	20
Xylenes, Total	0.0834		0.0795	mg/Kg		05/22/23 14:03	05/26/23 02:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	D8		/ 2 - 182	2: 05/26/23 08:21	2: 05/26/23 14:10	, 2

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Client Sample ID: BH01A
Date Collected: 05/16/23 13:45
Date Received: 05/17/23 08:33
Sample Depth: 2'

Lab Sample ID: 890-4673-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-difluorobenzene (Surr)	32		/ 2 - 182			2: 6, 6 8 14i28	2: 6 06 8 2, i1/		, 2
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	0.131		0.0795	mg/Kg			05/26/23 17:42		1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	207		50.0	mg/Kg			05/22/23 09:17		1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/19/23 07:57	05/19/23 13:03		1
Diesel Range Organics (Over C10-C28)	207		50.0	mg/Kg		05/19/23 07:57	05/19/23 13:03		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 07:57	05/19/23 13:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-difluorobenzene	D		/ 2 - 182			2: 6 06 8 2/ i: /	2: 6 06 8 18i28		1
o-pyrene	D		/ 2 - 182			2: 6 06 8 2/ i: /	2: 6 06 8 18i28		1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	518		4.99	mg/Kg			05/31/23 20:15		1

Surrogate Summary

Client EstuoinS
r jon/ECn: r U7 r nj/n l Bt aot C6

Job ID: 890-4561-C
GD3: 01I C228PC2

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-P8190-y-2 A M	A nExop MBt k	68	95
880-P8865-y-C-y A G	A Bfex Ghkn	002	001
880-P8865-y-C-MA GD	A Bfex Ghkn Dnrhiel BEn	99	000
890-456P-y-C-I A G	A Bfex Ghkn	85	000
890-456P-y-C-D A GD	A Bfex Ghkn Dnrhiel BEn	9C	00C
890-4561-C	MF 0C	085 GCd	002
890-4561-P	MF 0Cy	91	80
U G 880-21892LC-y	UBb l ot ffoi GBS hin	95	88
U G 880-24152LC-y	UBb l ot ffoi GBS hin	005	00C
U GD 880-21892LP-y	UBb l ot ffoi GBS hin Dnrh	91	006
U GD 880-24152LP-y	UBb l ot ffoi GBS hin Dnrh	99	001
A M 880-21892L2-y	A nExop MBt k	99	00C
A M 880-24152L2-y	A nExop MBt k	90	009
Surrogate Legend			
M=Mf 4-Mf oS oZmjobnt (nt n)GnjJZ			
D=M, f 00-Dmjobnt (nt n)GnjJZ			

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

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-P8296-y-C-s A G	A Bfex Ghkn	90	8P
880-P8296-y-C= A GD	A Bfex Ghkn Dnrhiel BEn	89	80
890-4561-C	MF 0C	001	98
890-4561-P	MF 0Cy	92	98
U G 880-216P0LP-y	UBb l ot ffoi GBS hin	6P	6C
U GD 880-216P0L1-y	UBb l ot ffoi GBS hin Dnrh	66	64
A M 880-216P0LC-y	A nExop MBt k	050 GCd	06C GCd
Surrogate Legend			
Q T f Cl xiojoo/ Bt n			
T Hr F f o-Hjhxt ai			

QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53895/5-A

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53895

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/25/23 22:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/25/23 22:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/25/23 22:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/22/23 14:03	05/25/23 22:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/25/23 22:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/22/23 14:03	05/25/23 22:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11		30 - 7/ 0	028 : 8 / 740/	028 28 / : : #2	7
7,4-Difluorobenzene (Surr)	777		30 - 7/ 0	028 : 8 / 740/	028 28 / : : #2	7

Lab Sample ID: LCS 880-53895/1-A

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1201		mg/Kg		120	70 - 130
Toluene	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.09581		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09341		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	1C		30 - 7/ 0
7,4-Difluorobenzene (Surr)	hh		30 - 7/ 0

Lab Sample ID: LCSD 880-53895/2-A

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1220		mg/Kg		122	70 - 130	2	35
Toluene	0.100	0.1114		mg/Kg		111	70 - 130	4	35
Ethylbenzene	0.100	0.09653		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130	3	35
o-Xylene	0.100	0.09616		mg/Kg		96	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	1/		30 - 7/ 0
7,4-Difluorobenzene (Surr)	703		30 - 7/ 0

Lab Sample ID: 890-4672-A-1-C MS

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09516		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.100	0.07831		mg/Kg		78	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

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

Lab Sample ID: 890-4672-A-1-C MS

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.06268	F1	mg/Kg		62	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1420		mg/Kg		71	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06740	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	hC		30 - 7/ 0
7,4-Difluorobenzene (Surr)	770		30 - 7/ 0

Lab Sample ID: 890-4672-A-1-D MSD

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.09316		mg/Kg		94	70 - 130	2	35
Toluene	<0.00201	U	0.0996	0.08153		mg/Kg		82	70 - 130	4	35
Ethylbenzene	<0.00201	U F1	0.0996	0.07255		mg/Kg		73	70 - 130	15	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1552		mg/Kg		78	70 - 130	9	35
o-Xylene	<0.00201	U F1	0.0996	0.07335		mg/Kg		73	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	17		30 - 7/ 0
7,4-Difluorobenzene (Surr)	707		30 - 7/ 0

Lab Sample ID: 880-28390-A-5 MB

Matrix: Solid

Analysis Batch: 54127

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/25/23 12:59	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/25/23 12:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/25/23 12:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/25/23 12:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/25/23 12:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/25/23 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	3h		30 - 7/ 0		028 28 / 7: 01	7
7,4-Difluorobenzene (Surr)	1C		30 - 7/ 0		028 28 / 7: 01	7

Lab Sample ID: MB 880-54365/5-A

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54365

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/30/23 09:40	05/30/23 11:30	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-54365/5-A

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54365

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/30/23 09:40	05/30/23 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10		30 - 7/ 0	028 08 / 01640	028 08 / 776 0	7
7,4-Difluorobenzene (Surr)	701		30 - 7/ 0	028 08 / 01640	028 08 / 776 0	7

Lab Sample ID: LCS 880-54365/1-A

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09839		mg/Kg		98	70 - 130
Toluene	0.100	0.09022		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08827		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09537		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70C		30 - 7/ 0
7,4-Difluorobenzene (Surr)	707		30 - 7/ 0

Lab Sample ID: LCSD 880-54365/2-A

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1284		mg/Kg		128	70 - 130	26	35
Toluene	0.100	0.1125		mg/Kg		113	70 - 130	22	35
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2159		mg/Kg		108	70 - 130	14	35
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	11		30 - 7/ 0
7,4-Difluorobenzene (Surr)	70/		30 - 7/ 0

Lab Sample ID: 880-28876-A-1-A MS

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1210		mg/Kg		120	70 - 130
Toluene	<0.00201	U	0.101	0.1065		mg/Kg		106	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1040		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2162		mg/Kg		107	70 - 130
o-Xylene	<0.00201	U	0.101	0.1073		mg/Kg		106	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

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

Lab Sample ID: 880-28876-A-1-A MS

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54365

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	702		30 - 7/ 0
7,4-Difluorobenzene (Surr)	70/		30 - 7/ 0

Lab Sample ID: 880-28876-A-1-B MSD

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 54365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1191		mg/Kg		120	70 - 130	2	35
Toluene	<0.00201	U	0.0996	0.09924		mg/Kg		100	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.0996	0.09310		mg/Kg		93	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1915		mg/Kg		96	70 - 130	12	35
o-Xylene	<0.00201	U	0.0996	0.09560		mg/Kg		96	70 - 130	12	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	11		30 - 7/ 0
7,4-Difluorobenzene (Surr)	770		30 - 7/ 0

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

Lab Sample ID: MB 880-53720/1-A

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53720

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		05/19/23 07:57	05/19/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/23 07:57	05/19/23 08:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/23 07:57	05/19/23 08:23	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
7-c t l o r o o a s s n e	700	S7T	30 - 7/ 0	028/18 / 03023	028/18 / 0h6 /	7
o-p e r y t e n t l	737	S7T	30 - 7/ 0	028/18 / 03023	028/18 / 0h6 /	7

Lab Sample ID: LCS 880-53720/2-A

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.7		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	823.8		mg/Kg		82	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
7-c t l o r o o a s s n e	3:		30 - 7/ 0
o-p e r y t e n t l	37		30 - 7/ 0

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-53720/3-A

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53720

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	773.4		mg/Kg		77	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	807.4		mg/Kg		81	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
7-c t l o r o o a s s n e	33		30 - 7 / 0						
o - p e r y t e n + l	34		30 - 7 / 0						

Lab Sample ID: 880-28597-A-1-E MS

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	881.1		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	936.4		mg/Kg		91	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
7-c t l o r o o a s s n e	10		30 - 7 / 0								
o - p e r y t e n + l	h:		30 - 7 / 0								

Lab Sample ID: 880-28597-A-1-F MSD

Matrix: Solid

Analysis Batch: 53715

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53720

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	951.5		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	915.9		mg/Kg		89	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
7-c t l o r o o a s s n e	h1		30 - 7 / 0								
o - p e r y t e n + l	h0		30 - 7 / 0								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53740/1-A

Matrix: Solid

Analysis Batch: 53794

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			05/21/23 17:10	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-53740/2-A

Matrix: Solid

Analysis Batch: 53794

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-53740/3-A

Matrix: Solid

Analysis Batch: 53794

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	264.4		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-4673-1 MS

Matrix: Solid

Analysis Batch: 53794

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	406		249	660.8		mg/Kg		102	90 - 110

Lab Sample ID: 890-4673-1 MSD

Matrix: Solid

Analysis Batch: 53794

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	406		248	656.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-54418/1-A

Matrix: Solid

Analysis Batch: 54489

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			05/31/23 17:22	1

Lab Sample ID: LCS 880-54418/2-A

Matrix: Solid

Analysis Batch: 54489

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-54418/3-A

Matrix: Solid

Analysis Batch: 54489

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	257.0		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-4747-A-2-C MS

Matrix: Solid

Analysis Batch: 54489

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	1710	F1	2510	4470		mg/Kg		110	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4747-A-2-D MSD						Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 54489												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1710	F1	2510	4584	F1	mg/Kg	-	115	90 - 110	3	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

GC VOA

Prep Batch: 53895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-2	BH01A	Total/NA	Solid	5035	
MB 880-53895/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53895/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53895/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4672-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4672-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 54127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-2	BH01A	Total/NA	Solid	8021B	53895
880-28390-A-5 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-53895/5-A	Method Blank	Total/NA	Solid	8021B	53895
LCS 880-53895/1-A	Lab Control Sample	Total/NA	Solid	8021B	53895
LCSD 880-53895/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53895
890-4672-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	53895
890-4672-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53895

Analysis Batch: 54295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	Total BTEX	
890-4673-2	BH01A	Total/NA	Solid	Total BTEX	

Analysis Batch: 54337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	8021B	54365
MB 880-54365/5-A	Method Blank	Total/NA	Solid	8021B	54365
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	8021B	54365
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54365
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	54365
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54365

Prep Batch: 54365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	5035	
MB 880-54365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 53715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	8015B NM	53720
890-4673-2	BH01A	Total/NA	Solid	8015B NM	53720
MB 880-53720/1-A	Method Blank	Total/NA	Solid	8015B NM	53720
LCS 880-53720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53720
LCSD 880-53720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53720
880-28597-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53720
880-28597-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53720

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

GC Semi VOA

Prep Batch: 53720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	8015NM Prep	
890-4673-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-53720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28597-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28597-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Total/NA	Solid	8015 NM	
890-4673-2	BH01A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Soluble	Solid	DI Leach	
MB 880-53740/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53740/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53740/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4673-1 MS	BH01	Soluble	Solid	DI Leach	
890-4673-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 53794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-1	BH01	Soluble	Solid	300.0	53740
MB 880-53740/1-A	Method Blank	Soluble	Solid	300.0	53740
LCS 880-53740/2-A	Lab Control Sample	Soluble	Solid	300.0	53740
LCSD 880-53740/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53740
890-4673-1 MS	BH01	Soluble	Solid	300.0	53740
890-4673-1 MSD	BH01	Soluble	Solid	300.0	53740

Leach Batch: 54418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-2	BH01A	Soluble	Solid	DI Leach	
MB 880-54418/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54418/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54418/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4747-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4747-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 54489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4673-2	BH01A	Soluble	Solid	300.0	54418
MB 880-54418/1-A	Method Blank	Soluble	Solid	300.0	54418
LCS 880-54418/2-A	Lab Control Sample	Soluble	Solid	300.0	54418
LCSD 880-54418/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54418
890-4747-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	54418
890-4747-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54418

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Client Sample ID: BH01
Date Collected: 05/16/23 13:35
Date Received: 05/17/23 08:33

Lab Sample ID: 890-4673-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54365	05/30/23 09:40	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	54337	05/30/23 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54295	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			53850	05/22/23 09:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53720	05/19/23 07:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53715	05/19/23 12:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53740	05/19/23 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53794	05/21/23 17:26	CH	EET MID

Client Sample ID: BH01A
Date Collected: 05/16/23 13:45
Date Received: 05/17/23 08:33

Lab Sample ID: 890-4673-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53895	05/22/23 14:03	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	54127	05/26/23 02:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54295	05/26/23 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			53850	05/22/23 09:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53720	05/19/23 07:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53715	05/19/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54418	05/30/23 13:29	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54489	05/31/23 20:15	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

lient Est uoinS
r jon/ECn: r U7 r nj/n l Bt aot C6

Job ID: 890-4561-C
GD3 : 01I C228PC2

Method	Method Description	Protocol	Laboratory
80PCW	VoiBn OjgBt e l oS pont du (3 l)	Gy 845	ss T MID
ToBt WTsX	ToBt WTsX l Bi/ miBt	TAUGOr	ss T MID
80C2 NM	Dnuni RBt gn OjgBt e u (DRO) (3 l)	Gy 845	ss T MID
80C2WNM	Dnuni RBt gn OjgBt e u (DRO) (3 l)	Gy 845	ss T MID
100.0	At et u, lot l hjoS Bt gj Bpha	sr A	ss T MID
2012	l iound GauBnS r njgn Bt d TjBp	Gy 845	ss T MID
80C2NM r jnp	M e jonx Bt / et	Gy 845	ss T MID
DI UhB/h	Dnet end y Bt nj UhB/ h e g r jo/ ndrjn	AGTM	ss T MID

Protocol References:

AGTM = AGTM It Bt Bt Bi
sr A = 7 G st v et Snt Bt r jon/ et Agnt / a
Gy 845 = "TnuEMnBodu Foj svBinBt g Goi e y BuBn, r hau e Bill hnS e Bi MnBodu", Th e d s d et , NovnS bnj C985 At d l e 7 pdBtu.
TAUGOr = TnuAS nj e B UBboj Bt j e u, Gt d Bt d Opnj Bt g r jo/ ndrjn

Laboratory References:

ss T MID = s njof e u M e l i Bt d, CPCCy . Fioj e l B Avn, M e l i Bt d, TX 6960C, Ts U (41P)604-2440

Sample Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4673-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4673-1	BH01	Solid	05/16/23 13:35	05/17/23 08:33	0.5'
890-4673-2	BH01A	Solid	05/16/23 13:45	05/17/23 08:33	2'

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

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

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU Pierce Canyon 17	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558215	Due Date:			
Project Location:	32.12406,-103.89609	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Thermometer ID:			
Samples Received Intact:	Yes ☒ No ☐ N/A	Correction Factor:			
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:			
Sample Custody Seals:	Yes ☐ No ☒ N/A	Corrected Temperature:			
Total Containers:					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
BH01	S	5/16/2023	13:35	0.5'	Grab/1
BH01A	S	5/16/2023	13:45	2'	Grab/1
ANALYSIS REQUEST					
CHLORIDES (EPA: 300.0)					
TPH (8015)					
BTEX (8021)					
890-4673 Chain of Custody					
Preservative Codes					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					
Sample Comments					
Incident ID:					
NAPP2233961574					
Cost Center:					
1081061001					
API:					
30-015-36635					
bbellill@ensolum.com					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/16/23 7:30 am			
		5/17/23 08:24			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4673-1

SDG Number: 03C1558215

Login Number: 4673

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4673-1

SDG Number: 03C1558215

Login Number: 4673**List Number: 2****Creator: Johnson, Allison****List Source: Eurofins Midland****List Creation: 05/19/23 08:01 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/2/2023 10:21:21 AM Revision 1

JOB DESCRIPTION

PLU Pierce Canyon 17
SDG NUMBER 03C1558215

JOB NUMBER

890-4674-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
6/2/2023 10:21:21 AM
Revision 1

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Laboratory Job ID: 890-4674-1
SDG: 03C1558215

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Definitions/Glossary

1 0 en t eEoGu
Proji cr/mrni : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0G1 3558235

Qualifiers

GC VOA

Qualifier	Qualifier Description
F3	Mmaed/or MmD ri covi ry i xci i dEcoerroQW IrE
U	ledlcari En+i aeaQni g aEaeaQ, i d for bsneondi ri cri d.

GC Semi VOA

Qualifier	Qualifier Description
m3w	mrrozari ri covi ry i xci i dEcoerroQW IrE +lz+ blaE d.
U	ledlcari En+i aeaQni g aEaeaQ, i d for bsneondi ri cri d.

HPLC/IC

Qualifier	Qualifier Description
F3	Mmaed/or MmD ri covi ry i xci i dEcoerroQW IrE
U	ledlcari En+i aeaQni g aEaeaQ, i d for bsneondi ri cri d.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	LIEri d sedi r n+i "D" coGu e ro di Bzeari n+ann+i ri EsQIERi porri d oe a dry gi lz+nbaBE
%R	Pi rci enRi covi ry
1 FL	1 oeraleEFri i Llqsl d
1 FU	1 oQey Foru lez Ueln
1 NF	1 oeraleENo Fri i Llqsl d
Dt R	DspQari t rror Rarlo (eoru aQ i d abEoGri dliti ri eci)
DlQFac	DlQrloe Facrør
DL	Di ri crloe Llu ln(DoD/DOt)
DLf RAF Rt f IN	ledlcari Ea DlQrloe Ri -aeaQBEF Ri -i xrractoeef or addlrloeaQelrlaQu i raQ/aeloe aeaQBE ohn+i Eau pC
DL1	Di clBoe Li vi Cl oeci errarloe (Radloc+i u lEry)
t DL	t Ertu ari d Di ri crloe Llu ln(Dloxle)
LOD	Llu InohDi ri crloe (DoD/DOt)
LOQ	Llu InohQsaerlrarloe (DoD/DOt)
M1 L	t PA ri cou u i edi d "Maxlu su 1 oerau leaenLi vi C
MDA	Mlelu su Di ri crabC Actrvry (Radloc+i u lEry)
MD1	Mlelu su Di ri crabC 1 oeci errarloe (Radloc+i u lEry)
MDL	Mi n+od Di ri crloe Llu ln
ML	Mlelu su Li vi QDloxle)
MPN	MoEnProbabC Nsu bi r
SQL	Mi n+od Qsaerlrarloe Llu ln
N1	Non1 aCsQari d
ND	NonDi ri cri d ann+i ri porriez QW ln(or MDL or t DL lhE+oge)
Nt S	Ni zarlvi / AbEi en
POm	PoErtvi / Pri Ei en
PQL	PracticaQsaerlrarloe Llu ln
PRt m	Pri Esu prlvi
Q1	QsaQy 1 oerroC
Rt R	Ri Qrtvi t rror Rarlo (Radloc+i u lEry)
RL	Ri porriez Llu lnor Ri qsi Ei d Llu ln(Radloc+i u lEry)
RPD	Ri Qrtvi Pi rci enDliti ri eci fa u i aEsri ohn+i ri Qrtvi dliti ri eci bi rgi i e rgo polerE
Tt F	Toxlclry t qslvaCenFacrør (Dloxle)
Tt Q	Toxlclry t qslvaCenQsorti en(Dloxle)
TNT1	Too Nsu i rosETo 1 osen

Case Narrative

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Job ID: 890-4674-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4674-1**REVISION

The report being provided is a revision of the original report sent on 5/30/2023. The report (revision 1) is being revised due to Per client email, requesting PH03B be taken off hold..

Receipt

The samples were received on 5/17/2023 8:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4674-1), PH02 (890-4674-2), PH03 (890-4674-3), PH03A (890-4674-4), PH03B (890-4674-5), PH04 (890-4674-6), PH05 (890-4674-7), SS10 (890-4674-8), SS11 (890-4674-9) and SS12 (890-4674-10).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PH01 (890-4674-1), PH02 (890-4674-2), PH03 (890-4674-3), PH03A (890-4674-4), PH03B (890-4674-5), PH04 (890-4674-6), PH05 (890-4674-7), SS10 (890-4674-8), SS11 (890-4674-9) and SS12 (890-4674-10). The container labels list 890-4674 while the COC lists 4674-a-6 The client was contacted, and the lab was instructed to jar: ph21 2' 9:10 5-16-23

coc: ph04 9:10 5-16-23 with the sample and coc matching with time and date these are the same sample- will be sent out like normal

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53895 and analytical batch 880-54127 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53658 and analytical batch 880-53627 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-4674-1), PH02 (890-4674-2), PH03 (890-4674-3), PH03A (890-4674-4) and PH04 (890-4674-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-53627 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-53627/31).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54453 and analytical batch 880-54532 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-28880-A-9-A), (880-28880-A-9-B MS) and (880-28880-A-9-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH03B (890-4674-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Job ID: 890-4674-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53659 and analytical batch 880-53760 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B03

Lab Sample ID: 890-4674-3

Date Collected: 05/23/2023 10:30:00

Hat#: Sxlio

Date Received: 05/25/2023 08:03

Sample Depth: 2.

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 04:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	13		30 - 7/0	028 : 8 / 740/	028 , 8 / 0403	7
7,8-Di-fluorobenzene (Surr)	h1		30 - 7/0	028 : 8 / 740/	028 , 8 / 0403	7

Hethxo: f AL SO1 f xtal W TE - f xtal W TE Calculatixn

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:42	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
ftal f 1 B	c4&		49.8	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/18/23 10:51	05/18/23 13:33	1
Diesel Range Organics (Over C10-C30-C/ 8)	c4&		49.8	mg/Kg		05/18/23 10:51	05/18/23 13:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/18/23 10:51	05/18/23 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7-chlorooctane	114	S7T	30 - 7/0	028/18 / 7007	028/18 / 7/0/	7
o-perylene	117	S7T	30 - 7/0	028/18 / 7007	028/18 / 7/0/	7

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxuble

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
ChlxMoe	c/ c		5.03	mg/Kg			05/20/23 14:37	1

Client Sample ID: 1 B0/

Lab Sample ID: 890-4674-/

Date Collected: 05/23/2023 10:30:20

Hat#: Sxlio

Date Received: 05/25/2023 08:03

Sample Depth: 2.

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 04:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 04:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1h		30 - 7/0	028 : 8 / 740/	028 , 8 / 046 1	7

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B0/

Date Collected: 05/23/2023

Date Received: 05/25/2023

Sample Depth: 2.

Lab Sample ID: 890-4674-/

Hat#: Sxlio

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC) (Continue)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7-chlorofluorobenzene (Surr)	100		30 - 70	028 : 8 / 740/	028 : 8 / 046 1	7

Hethxo: f AL SO1 f xtal W TE - f xtal W TE Calculatixn

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:42	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total TPH	<50.0	U	50.0	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7-chlorofluorobenzene	100	S7T	30 - 70	028/18 / 70027	028/18 / 7/022	7
o-pertyl en+I	100	S7T	30 - 70	028/18 / 70027	028/18 / 7/022	7

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxluhle

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
ChlxMbe	2/ 2		5.03	mg/Kg			05/20/23 14:42	1

Client Sample ID: 1 B02

Date Collected: 05/23/2023

Date Received: 05/25/2023

Sample Depth: 3.

Lab Sample ID: 890-4674-2

Hat#: Sxlio

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Benzene	<0.0998	U	0.0998	mg/Kg		05/22/23 14:03	05/26/23 07:11	50
fluene	0.090		0.0998	mg/Kg		05/22/23 14:03	05/26/23 07:11	50
Thylbenzene	0.029		0.0998	mg/Kg		05/22/23 14:03	05/26/23 07:11	50
m-Eylene N p-Eylene	0.009		0.200	mg/Kg		05/22/23 14:03	05/26/23 07:11	50
x-Eylene	0.004		0.0998	mg/Kg		05/22/23 14:03	05/26/23 07:11	50
Eylenes, f xtal	0.002		0.200	mg/Kg		05/22/23 14:03	05/26/23 07:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	14		30 - 70	028 : 8 / 740/	028 : 8 / 03677	20
7-chlorofluorobenzene (Surr)	37		30 - 70	028 : 8 / 740/	028 : 8 / 03677	20

Hethxo: f AL SO1 f xtal W TE - f xtal W TE Calculatixn

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
f xtal W TE	0.006		0.200	mg/Kg			05/30/23 08:51	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
f xtal f 1 B	0.030		50.0	mg/Kg			05/19/23 10:39	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B02

Date Collected: 05/18/23 10:51

Date Received: 05/18/23 10:51

Sample Depth: 3.

Lab Sample ID: 890-4674-2

Hat#: Sxlio

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Gasoline Range Organics (GRO)-C6-C30	649		50.0	mg/Kg		05/18/23 10:51	05/18/23 14:17	1
Diesel Range Organics (Over C30-C/ 8)	3020		50.0	mg/Kg		05/18/23 10:51	05/18/23 14:17	1
Oil Range Organics (Over C/ 8-C26)	668		50.0	mg/Kg		05/18/23 10:51	05/18/23 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
7-chlorooanthracene	: 21	S7T	30 - 7/ 0			028/18 / 7067	028/18 / 7463	7
9-fluorenyl anthracene	: 44	S7T	30 - 7/ 0			028/18 / 7067	028/18 / 7463	7

Hethxo: T1A 2008 - Anixns, lxn Chm matxgMph - Sxliube

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Chlorobenzene	3/ 1		5.03	mg/Kg			05/20/23 16:56	1

Client Sample ID: 1 B02A

Date Collected: 05/18/23 10:51

Date Received: 05/18/23 10:51

Sample Depth: 6.

Lab Sample ID: 890-4674-4

Hat#: Sxlio

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/22/23 14:03	05/26/23 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	h3		30 - 7/ 0			028 : 8 / 746/	028 , 8 / 0461	7
7,8-Difluorobenzene (Surr)	h7		30 - 7/ 0			028 : 8 / 746/	028 , 8 / 0461	7

Hethxo: f AL SO1 f xtal W TE - f xtal W TE Calculatixn

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/26/23 17:42	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 14:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 14:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
7-chlorooanthracene	: : h	S7T	30 - 7/ 0			028/18 / 7067	028/18 / 746 1	7
9-fluorenyl anthracene	: / :	S7T	30 - 7/ 0			028/18 / 7067	028/18 / 746 1	7

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B02A

Date Collected: 05/23/2023 2 34:20

Date Received: 05/25/2023 2 08:/ 3

Sample Depth: 6.

Lab Sample ID: 890-4674-4

Hat#: Sxlio

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxuble

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
ChlxMbe	749		4.98	mg/Kg			05/20/23 17:01	1

Client Sample ID: 1 B02W

Date Collected: 05/23/2023 2 34:4c

Date Received: 05/25/2023 2 08:/ 3

Sample Depth: 8.

Lab Sample ID: 890-4674-c

Hat#: Sxlio

Hethxo: S' 846 803c XH - Diesel Range OMjanids (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total TPH	<49.8	U	49.8	mg/Kg			06/02/23 09:38	1

Hethxo: S' 846 803cWXH - Diesel Range OMjanids (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/18/23 10:51	06/01/23 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/18/23 10:51	06/01/23 19:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/18/23 10:51	06/01/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits					
7-c t l o r o o a 5 n e	77	S7T	30 - 77					
o-p e r y t e n + l	70		30 - 77					
				Prepared	Analyzed	Dil Fac		
				028/18 / 7027	0, 8078 / 7h0/	7		
				028/18 / 7027	0, 8078 / 7h0/	7		

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxuble

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
ChlxMbe	128		4.95	mg/Kg			05/31/23 13:58	1

Client Sample ID: 1 B04

Date Collected: 05/23/2023 2 09:30

Date Received: 05/25/2023 2 08:/ 3

Sample Depth: / .

Lab Sample ID: 890-4674-6

Hat#: Sxlio

Hethxo: S' 846 80/ 3W- Vxlatile OMjanid Cxmpxunos (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 05:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 05:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 05:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/22/23 14:03	05/26/23 05:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 05:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/22/23 14:03	05/26/23 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	hh		30 - 77	028 : 8 / 740/	028 , 8 / 020h	7
7,8-di fluorobenzene (Surr)	h,		30 - 77	028 : 8 / 740/	028 , 8 / 020h	7

Hethxo: fAL SO1 f xtal Wf TE - f xtal Wf TE Calduatixn

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/26/23 17:42	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B04

Lab Sample ID: 890-4674-6

Date Collected: 05/19/23 09:30

Hat#: Sxlio

Date Received: 05/19/23 08:30

Sample Depth: / .

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total TPH	<49.9	U	49.9	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7-chloroanthracene	70		30 - 70	05/18/23 10:51	05/18/23 15:00	7
o-pertylenanthracene	70	S7T	30 - 70	05/18/23 10:51	05/18/23 15:00	7

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxllube

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
ChlxMbe	64.8		4.97	mg/Kg			05/20/23 17:17	1

Client Sample ID: 1 B0c

Lab Sample ID: 890-4674-7

Date Collected: 05/19/23 09:30

Hat#: Sxlio

Date Received: 05/19/23 08:30

Sample Depth: 2.

Hethxo: S' 846 80/ 3W- Vxlatile Organid Cxmpxunos (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Benzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 05:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	hh		30 - 70	05/22/23 14:03	05/26/23 05:29	7
7-chlorofluorobenzene (Surr)	70		30 - 70	05/22/23 14:03	05/26/23 05:29	7

Hethxo: fAL SO1 fxtal Wf TE - fxtal Wf TE Calculatixn

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:42	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
fxtal f 1B	cc.8		49.9	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:22	1
Diesel Range Organics (Over C10-C28)	cc.8		49.9	mg/Kg		05/18/23 10:51	05/18/23 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:22	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: 1 B0c

Date Collected: 05/26/2023 09:00

Date Received: 05/27/2023 08:00

Sample Depth: 2.

Lab Sample ID: 890-4674-7

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Factor
7-chloroanthracene	77		30 - 70	05/28/23 17:02	05/28/23 17:23	7
9-phenanthrene	77		30 - 70	05/28/23 17:02	05/28/23 17:23	7

Hethco: T1A 2000 - Anions, Inorganic Chemistry - Soluble

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzed	Dil Factor
Chloride	34		5.03	mg/Kg			05/20/23 17:23	1

Client Sample ID: SS30

Date Collected: 05/26/2023 12:00

Date Received: 05/27/2023 08:00

Sample Depth: 0&

Lab Sample ID: 890-4674-8

Matrix: Soil

Hethxo: S' 846 80/ 3W- Vxlatile OMganid Cxmpxunos (GC)								
Analyte	Result	UualiqeM	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/22/23 14:03	05/26/23 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1h		30 - 7/ 0			028 : 8 / 740/	028 , 8 / 026h	7
74-i Fluorobenzene (Surr)	h,		30 - 7/ 0			028 : 8 / 740/	028 , 8 / 026h	7

Hethco: f AL SO1 f xtal W TE - f xtal W TE Calculation

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzed	Dil Factor
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/26/23 17:42	1

Hethco: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzed	Dil Factor
Total TPH	<49.9	U	49.9	mg/Kg			05/19/23 10:39	1

Hethco: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/23 10:51	05/18/23 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
7-chloroanthracene	77		30 - 70			028/18 / 7027	028/18 / 726/	7
9-phenanthrene	77		30 - 70			028/18 / 7027	028/18 / 726/	7

Hethco: T1A 2000 - Anions, Inorganic Chemistry - Soluble

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzed	Dil Factor
Chloride	64		5.05	mg/Kg			05/20/23 17:28	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: SS33

Lab Sample ID: 890-4674-9

Date Collected: 05/26/23 14:03

Hat#: Sxlio

Date Received: 05/27/23 08:03

Sample Depth: 0.0

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 06:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 06:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 06:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/22/23 14:03	05/26/23 06:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 14:03	05/26/23 06:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/22/23 14:03	05/26/23 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	h:		30 - 7/0	028 : 8 / 740/	028 , 8 / 0, 6/0	7
7,8-Di-fluorobenzene (Surr)	h,		30 - 7/0	028 : 8 / 740/	028 , 8 / 0, 6/0	7

Hethxo: f AL SO1 f xtal W TE - f xtal W TE Calculatixn

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/26/23 17:42	1

Hethxo: S' 846 803c XH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/19/23 10:39	1

Hethxo: S' 846 803cWXH - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 16:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 16:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/23 10:51	05/18/23 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7-chlorooctane	h,		30 - 7/0	028/18 / 7067	028/18 / 7, 6/1	7
non-perylene	h4		30 - 7/0	028/18 / 7067	028/18 / 7, 6/1	7

Hethxo: T1A 2000 - Anixns, lxn ChMmatxgMphy - Sxuble

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Chlorobenzene	6.0		5.05	mg/Kg			05/20/23 17:33	1

Client Sample ID: SS3/

Lab Sample ID: 890-4674-30

Date Collected: 05/26/23 14:00

Hat#: Sxlio

Date Received: 05/27/23 08:03

Sample Depth: 0.0

Hethxo: S' 846 80/ 3W- Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	1 MpaMo	Analyzeo	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 06:30	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 06:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 06:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/22/23 14:03	05/26/23 06:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/22/23 14:03	05/26/23 06:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/22/23 14:03	05/26/23 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	h2		30 - 7/0	028 : 8 / 740/	028 , 8 / 0, 6/0	7

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Client Sample ID: SS3/
Date Cxlltedeo: 0c565 2 34:00
Date Redeiveo: 0c575 2 08:/ 3
Sample Depth: 0&.

Lab Sample ID: 890-4674-30
HatMr: Sxlio

Hethxo: S' 846 80/ 3W- Vxlatile OMjanid Cxmpxunos (GC) (Cxntinueo)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
7 <i>Q</i> -i Quorobenzene (Surr)	700		30 - 7/ 0			028 : 8 / 746/	028 , 8 / 0, 6 0	7	
Hethxo: f AL SO1 f xtal Wf TE - f xtal Wf TE Caldulatixn									
Analyte	Result	UualieQM	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad	
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/26/23 17:42	1	
Hethxo: S' 846 803c XH - Diesel Range OMjanids (DRO) (GC)									
Analyte	Result	UualieQM	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad	
Total TPH	<49.8	U	49.8	mg/Kg			05/19/23 10:39	1	
Hethxo: S' 846 803cWXH - Diesel Range OMjanids (DRO) (GC)									
Analyte	Result	UualieQM	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/18/23 10:51	05/18/23 16:50	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/18/23 10:51	05/18/23 16:50	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/18/23 10:51	05/18/23 16:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
7-c t l orooa5ne	77:		30 - 7/ 0			028/18 / 7067	028/18 / 7, 60	7	
o-peryt en+I	774		30 - 7/ 0			028/18 / 7067	028/18 / 7, 60	7	
Hethxo: T1A 200& - Anixns, lxn ChMmatxgMphy - Sxluhle									
Analyte	Result	UualieQM	RL	Pnit	D	1 MpaMo	Analyzeo	Dil Fad	
ChlxMbe	73&		5.05	mg/Kg			05/20/23 17:39	1	

Surrogate Summary

Client: Ensolum

Job ID: 890-4564-1

r joel Site: r U7 r iej/ e CBnaon 16

SDG: 03C1228P12

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-P8390-y -2 A M	A etxop MBnk	68	95
890-456P-y -1-C A S	A Btji+ Shike	85	110
890-456P-y -1-D A SD	A Btji+ Shike Duhli/ Bte	91	101
890-4564-1	r d 01	86	98
890-4564-P	r d 0P	89	90
890-4564-3	r d 03	84	61
890-4564-4	r d 03y	96	91
890-4564-5	r d 04	99	95
890-4564-6	r d 02	99	10P
890-4564-8	SS10	89	95
890-4564-9	SS11	9P	95
890-4564-10	SS1P	92	100
UCS 880-23892L1-y	UBb Contjol SBmhle	95	88
UCSD 880-23892IP-y	UBb Contjol SBmhle Duh	93	106
A M880-23892L2-y	A etxop MBnk	99	111

Surrogate Legend

MFM = 4-Momofluorobenzene (Sujj)

DFMZ = 1,4-Difluorobenzene (Sujj)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-P8483-y -P1-E A S	A Btji+ Shike	115	113
880-P8483-y -P1-F A SD	A Btji+ Shike Duhli/ Bte	108	98
880-P8880-y -9-MAS	A Btji+ Shike	145 S1O	102
880-P8880-y -9-C A SD	A Btji+ Shike Duhli/ Bte	145 S1O	102
890-4564-1	r d 01	PP4 S1O	PP3 S1O
890-4564-P	r d 0P	PP2 S1O	P15 S1O
890-4564-3	r d 03	P28 S1O	P44 S1O
890-4564-4	r d 03y	PP9 S1O	P3P S1O
890-4564-2	r d 03M	133 S1O	10P
890-4564-5	r d 04	1P0	13P S1O
890-4564-6	r d 02	115	119
890-4564-8	SS10	11P	115
890-4564-9	SS11	95	94
890-4564-10	SS1P	11P	114
UCS 880-23528IP-y	UBb Contjol SBmhle	92	93
UCS 880-24423IP-y	UBb Contjol SBmhle	106	84
UCSD 880-23528L3-y	UBb Contjol SBmhle Duh	109	109
UCSD 880-24423L3-y	UBb Contjol SBmhle Duh	1PP	93
A M880-23528L1-y	A etxop MBnk	192 S1O	P05 S1O
A M880-24423L1-y	A etxop MBnk	160 S1O	133 S1O

Surrogate Legend

1CT = 1-Cxlojoo/ tBne

T Hr d = o-Hbjhxnal

Eujofins CBjlsbBp

QC Sample Results

1 0 en t eEoGu
Proji cr/mli : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59875/5-A				Client Sample ID: Method Blank				
Matrix: Solid				Prep Type: Total/NA				
Analysis Batch: 5312F				Prep Batch: 59875				
Analyte	MB Result	MB Qualifier	RL	f nit	D	Prepared	Analyzed	Dil Factor
Bi ezi ei	<0.00200	U	0.00200	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
ToSi ei	<0.00200	U	0.00200	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
t rhyDi ezi ei	<0.00200	U	0.00200	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
u -XyCe i & p-XyCe i	<0.00400	U	0.00400	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
o-XyCe i	<0.00200	U	0.00200	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
XyCe i E, ToræC	<0.00400	U	0.00400	u g/Kg		05/22/2G34:0G	05/25/2G22:45	3
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Factor
4-Bromofluorobenzene (Surr)	11		30 - 7/ 0			028 : 8 / 740/	028 28 / : : 0#2	7
7,4-Difluorobenzene (Surr)	777		30 - 7/ 0			028 : 8 / 740/	028 28 / : : 0#2	7

Lab Sample ID: LCS 880-59875/1-A					Client Sample ID: Lab Control Sample							
Matrix: Solid					Prep Type: Total/NA							
Analysis Batch: 5312F					Prep Batch: 59875							
Analyte	Spike			LCS	LCS	f nit	D	4 Rec	4 Rec			
	Added			Result	Qualifier					Limits		
	Bi ezi ei			0.300	0.3203					u g/Kg	320	70 - 3G0
	ToSi ei			0.300	0.3067					u g/Kg	307	70 - 3G0
	t rhyDi ezi ei			0.300	0.09583					u g/Kg	96	70 - 3G0
	u -XyCe i & p-XyCe i			0.200	0.3993					u g/Kg	300	70 - 3G0
o-XyCe i			0.300	0.09G43	u g/Kg		9G	70 - 3G0				
LCS		LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	1C		30 - 7/ 0									
7,4-Difluorobenzene (Surr)	hh		30 - 7/ 0									

Lab Sample ID: LCSD 880-59875/2-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 5312F				Prep Batch: 59875							
Analyte			Spike	LCSD	LCSD	f nit	D	4 Rec	4 Rec	RPD	RPD
			Added	Result	Qualifier				Limits	RPD	Limit
Bi ezi ei			0.300	0.3220		u g/Kg		322	70 - 3G0	2	G5
ToSi ei			0.300	0.3334		u g/Kg		333	70 - 3G0	4	G5
t rhyDi ezi ei			0.300	0.0965G		u g/Kg		97	70 - 3G0	3	G5
u -XyCe i & p-XyCe i			0.200	0.2049		u g/Kg		302	70 - 3G0	G	G5
o-XyCe i			0.300	0.09636		u g/Kg		96	70 - 3G0	G	G5
				LCSD	LCSD						
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		1/		30 - 7/ 0							
7,4-Difluorobenzene (Surr)		703		30 - 7/ 0							

Lab Sample ID: 870-36F2-A-1-C MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 5312F							Prep Batch: 59875			
	Sample	Sample	Spike	MS	MS				4 Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	f nit	D	4 Rec	Limits	
Bi ezi ei	<0.00203	U	0.300	0.09536		u g/Kg		95	70 - 3G0	
ToSi ei	<0.00203	U	0.300	0.078G3		u g/Kg		78	70 - 3G0	

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QC Sample Results

1 0 en t eEoGu
Proji cr/mrni : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

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

Lab Sample ID: 870-36F2-A-1-C MS							Client Sample ID: Matrix Spike					
Matrix: Solid							Prep Type: Total/NA					
Analysis Batch: 5312F							Prep Batch: 59875					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	4 Rec	4 Rec Limits			
t rhyDi ezi ei	<0.00203	U F3	0.300	0.06268	F3	u g/Kg		62	70 - 3G0			
u -XyCe i & p-XyCe i	<0.00402	U	0.203	0.3420		u g/Kg		73	70 - 3G0			
o-XyCe i	<0.00203	U F3	0.300	0.06740	F3	u g/Kg		67	70 - 3G0			
Surrogate	MS %Recovery	MS Qualifier	Limits									
4-Bromofluorobenzene (Surr)	hC		30 - 7/ 0									
7,4-Difluorobenzene (Surr)	770		30 - 7/ 0									

Lab Sample ID: 870-36F2-A-1-D MSD							Client Sample ID: Matrix Spike Duplicate				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 5312F							Prep Batch: 59875				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	Limit
Bi ezi ei	<0.00203	U	0.0996	0.09G36		u g/Kg		94	70 - 3G0	2	G5
ToSi ei	<0.00203	U	0.0996	0.0835G		u g/Kg		82	70 - 3G0	4	G5
t rhyDi ezi ei	<0.00203	U F3	0.0996	0.07255		u g/Kg		7G	70 - 3G0	35	G5
u -XyCe i & p-XyCe i	<0.00402	U	0.399	0.3552		u g/Kg		78	70 - 3G0	9	G5
o-XyCe i	<0.00203	U F3	0.0996	0.07G36		u g/Kg		7G	70 - 3G0	8	G5
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	17		30 - 7/ 0								
7,4-Difluorobenzene (Surr)	707		30 - 7/ 0								

Lab Sample ID: 880-28970-A-5 MB					Client Sample ID: Method Blank							
Matrix: Solid					Prep Type: Total/NA							
Analysis Batch: 5312F												
Analyte	MB	MB	RL	f nit	D	Prepared	AnalyUed	Dil zac				
	Result	Qualifier										
	Bi ezi ei	<0.00200 U							0.00200	u g/Kg	05/25/2G32:59	3
	ToSi ei	<0.00200 U							0.00200	u g/Kg	05/25/2G32:59	3
	t rhyDi ezi ei	<0.00200 U							0.00200	u g/Kg	05/25/2G32:59	3
	u -XyCe i & p-XyCe i	<0.00400 U							0.00400	u g/Kg	05/25/2G32:59	3
	o-XyCe i	<0.00200 U							0.00200	u g/Kg	05/25/2G32:59	3
XyCe i E, ToræC	<0.00400 U	0.00400	u g/Kg	05/25/2G32:59	3							
Surrogate	MB	MB	Limits		Prepared	Analyzed	Dil Fac					
	%Recovery	Qualifier										
	4-Bromofluorobenzene (Surr)	3h						30 - 7/ 0	028 28 / 7: 01	7		
	7,4-Difluorobenzene (Surr)	1C						30 - 7/ 0	028 28 / 7: 01	7		

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

Lab Sample ID: MB 880-59658/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 5962F							Prep Batch: 59658			
Analyte	MB Result	MB Qualifier	RL	f nit	D	Prepared	AnalyUed		Dil zac	
SaEoCe i Raegi OrgaelcE (SRO)-16-130	<50.0	U	50.0	u g/Kg		05/38/2G08:00	05/38/2G08:07		3	

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QC Sample Results

10 ent eEoGu
Proji cr/mrli : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

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

Lab Sample ID: MB 880-59658/1-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 5962F						Prep Batch: 59658		
Analyte	MB Result	MB Qualifier	RL	f nit	D	Prepared	Analyzed	Dil fac
Dli E CRaegi OrgaelcE (Ovi r 130-128)	<50.0	U	50.0	u g/Kg		05/38/2G08:00	05/38/2G08:07	3
OlCRaegi OrgaelcE (Ovi r 128-1 G6)	<50.0	U	50.0	u g/Kg		05/38/2G08:00	05/38/2G08:07	3
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
7-c t lorooa\$ne	712	S7T	30 - 7/ 0			0287h8 / 0h00	0287h8 / 0h03	7
o-peryt en+I	: 0C	S7T	30 - 7/ 0			0287h8 / 0h00	0287h8 / 0h03	7

Lab Sample ID: LCS 880-59658/2-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 5962F						Prep Batch: 59658		
Analyte			Spike Added	LCS Result	LCS Qualifier	f nit	D	4 Rec Limits
SaEoEi Raegi OrgaelcE (SRO)-16-130			3000	962.5		u g/Kg		96 70 - 3G0
Dli E CRaegi OrgaelcE (Ovi r 130-128)			3000	988.7		u g/Kg		99 70 - 3G0
Surrogate	%Recovery	Qualifier	Limits					
7-c t lorooa\$ne	12		30 - 7/ 0					
o-peryt en+I	1/		30 - 7/ 0					

Lab Sample ID: LCSD 880-59658/9-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 5962F						Prep Batch: 59658				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	f nit	D	4 Rec Limits	RPD	Limit
SaEoEi Raegi OrgaelcE (SRO)-16-130			3000	947.9		u g/Kg		95 70 - 3G0	2	20
Dli E CRaegi OrgaelcE (Ovi r 130-128)			3000	980.4		u g/Kg		98 70 - 3G0	3	20
Surrogate	%Recovery	Qualifier	Limits							
7-c t lorooa\$ne	701		30 - 7/ 0							
o-peryt en+I	701		30 - 7/ 0							

Lab Sample ID: 880-28389-A-21-E MS						Client Sample ID: Matrix Spike				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 5962F						Prep Batch: 59658				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	4 Rec Limits		
SaEoEi Raegi OrgaelcE (SRO)-16-130	<49.9	U	997	3035		u g/Kg		300 70 - 3G0		
Dli E CRaegi OrgaelcE (Ovi r 130-128)	<49.9	U	997	3075		u g/Kg		304 70 - 3G0		
Surrogate	%Recovery	Qualifier	Limits							
7-c t lorooa\$ne	77C		30 - 7/ 0							
o-peryt en+I	77/		30 - 7/ 0							

t srofleE1 arCbad

QC Sample Results

10 ent eEoGu
Proji cr/mrli : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

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

Lab Sample ID: 880-28389-A-21-z MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 5962F						Prep Batch: 59658					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit
SaEoEi Raegi OrgaelcE (SRO)-1 6-130	<49.9	U	999	908.9		u g/Kg		89	70 - 3G0	33	20
Dli E ORaegi OrgaelcE (Ovi r 130-128)	<49.9	U	999	967.5		u g/Kg		9G	70 - 3G0	33	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
7-c t lorooaEne	70h		30 - 7/ 0								
o-peryt entI	1h		30 - 7/ 0								

Lab Sample ID: MB 880-53359/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 53592						Prep Batch: 53359			
Analyte	MB Result	MB Qualifier	RL	f nit	D	Prepared	Analyzed	Dil fac	
SaEoEi Raegi OrgaelcE (SRO)-1 6-130	<50.0	U	50.0	u g/Kg		05/G3/2G09:35	06/03/2G08:40	3	
Dli E ORaegi OrgaelcE (Ovi r 130-128)	<50.0	U	50.0	u g/Kg		05/G3/2G09:35	06/03/2G08:40	3	
OIRaegi OrgaelcE (Ovi r 128-1 G6)	<50.0	U	50.0	u g/Kg		05/G3/2G09:35	06/03/2G08:40	3	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
7-c t lorooaEne	730	S7T	30 - 7/ 0			028 78 / 016 72	0C8078 / 0h00	7	
o-peryt entI	7/ /	S7T	30 - 7/ 0			028 78 / 016 72	0C8078 / 0h00	7	

Lab Sample ID: LCS 880-53359/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 53592						Prep Batch: 53359					
Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	4 Rec	4 Rec Limits				
SaEoEi Raegi OrgaelcE (SRO)-1 6-130	3000	93G7		u g/Kg		93	70 - 3G0				
Dli E ORaegi OrgaelcE (Ovi r 130-128)	3000	946.3		u g/Kg		95	70 - 3G0				
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
7-c t lorooaEne	703		30 - 7/ 0								
o-peryt entI	h4		30 - 7/ 0								

Lab Sample ID: LCSD 880-53359/9-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 53592						Prep Batch: 53359					
Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit		
SaEoEi Raegi OrgaelcE (SRO)-1 6-130	3000	3008		u g/Kg		303	70 - 3G0	30	20		
Dli E ORaegi OrgaelcE (Ovi r 130-128)	3000	303G		u g/Kg		303	70 - 3G0	7	20		

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QC Sample Results

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Proji cr/mrli : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

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

Lab Sample ID: LCSD 880-53359/9-A
Matrix: Solid
Analysis Batch: 53592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53359

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
7-c t lorooa5ne	7.1		30 - 7/ 0
o-peryt en+I	1/		30 - 7/ 0

Lab Sample ID: 880-28880-A-7-B MS
Matrix: Solid
Analysis Batch: 53592

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 53359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	4 Rec	4 Rec Limits		
						u g/Kg		320	70 - 300		
SaEo0ei Raegi OrgaelcE (SRO)-16-130	<50.0	U	999	3203		u g/Kg		320	70 - 300		
Dli E ORaegi OrgaelcE (Ovi r 130-128)	<50.0	U	999	3324		u g/Kg		33G	70 - 300		
Surrogate	MS %Recovery	MS Qualifier	Limits								
7-c t lorooa5ne	74C	S7T	30 - 7/ 0								
o-peryt en+I	702		30 - 7/ 0								

Lab Sample ID: 880-28880-A-7-C MSD
Matrix: Solid
Analysis Batch: 53592

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limits
						u g/Kg					
SaEo0ei Raegi OrgaelcE (SRO)-16-130	<50.0	U	997	3393		u g/Kg		339	70 - 300	3	20
Dli E ORaegi OrgaelcE (Ovi r 130-128)	<50.0	U	997	3320		u g/Kg		332	70 - 300	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
7-c t lorooa5ne	74C	S7T	30 - 7/ 0								
o-peryt en+I	702		30 - 7/ 0								

Method: 900.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59660/1-A
Matrix: Solid
Analysis Batch: 59F57

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	f nit	D	Prepared	AnalyUed	Dil zac
1 h0rldi	<5.00	U	5.00	u g/Kg			05/20/2G35:09	3

Lab Sample ID: LCS 880-59660/2-A
Matrix: Solid
Analysis Batch: 59F57

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	4 Rec	4 Rec Limits
1 h0rldi	250	26G4		u g/Kg		305	90 - 330

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QC Sample Results

1 0 en t eEoGu
Proji cr/mrli : PLU Pli rci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

Method: 900.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-59660/9-A												Client Sample ID: Lab Control Sample Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F57																							
Analyte				Spike Added	LCSD Result	LCSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit											
1 h0rldi				250	265.5		u g/Kg		306	90 - 330	3	20											
Lab Sample ID: 880-285F9-A-11-B MS												Client Sample ID: Matrix Spike Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F57																							
Analyte				Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	4 Rec	4 Rec Limits											
1 h0rldi				G27		249	570.3		u g/Kg		98	90 - 330											
Lab Sample ID: 880-285F9-A-11-C MSD												Client Sample ID: Matrix Spike Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F57																							
Analyte				Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit									
1 h0rldi				G27		249	574.3		u g/Kg		99	90 - 330	3	20									
Lab Sample ID: MB 880-59657/1-A												Client Sample ID: Method Blank											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F60																							
Analyte				MB Result	MB Qualifier	RL	f nit	D	Prepared	AnalytEd	Dil zac												
1 h0rldi				<5.00	U	5.00	u g/Kg			05/20/2G32:02	3												
Lab Sample ID: LCS 880-59657/2-A												Client Sample ID: Lab Control Sample Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F60																							
Analyte				Spike Added	LCS Result	LCS Qualifier	f nit	D	4 Rec	4 Rec Limits													
1 h0rldi				250	259.3		u g/Kg		304	90 - 330													
Lab Sample ID: LCSD 880-59657/9-A												Client Sample ID: Lab Control Sample Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F60																							
Analyte				Spike Added	LCSD Result	LCSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit											
1 h0rldi				250	263.2		u g/Kg		304	90 - 330	3	20											
Lab Sample ID: 880-285F5-A-3-B MS												Client Sample ID: Matrix Spike Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F60																							
Analyte				Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	4 Rec	4 Rec Limits											
1 h0rldi				57.2	F3	252	G09.0	F3	u g/Kg		332	90 - 330											
Lab Sample ID: 880-285F5-A-3-C MSD												Client Sample ID: Matrix Spike Duplicate											
Matrix: Solid												Prep Type: Soluble											
Analysis Batch: 59F60																							
Analyte				Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	4 Rec	4 Rec Limits	RPD	RPD Limit									
1 h0rldi				57.2	F3	252	G09.6	F3	u g/Kg		332	90 - 330	0	20									

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QC Sample Results

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Proji cr/mrni : PLU Plir ci 1 aeyoe 37

Job ID: 890-4674-3
mDS: 0GI 3558235

Method: 900.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53362/1-A										Client Sample ID: Method Blank									
Matrix: Solid										Prep Type: Soluble									
Analysis Batch: 53373																			
Analyte		MB Result		MB Qualifier		RL		f nit		D		Prepared		AnalyUed		Dil zac			
1 h0rldi		<5.00		U		5.00		u g/Kg						05/G3/2G32:06		3			
Lab Sample ID: LCS 880-53362/2-A										Client Sample ID: Lab Control Sample									
Matrix: Solid										Prep Type: Soluble									
Analysis Batch: 53373																			
Analyte				Spike Added		LCS Result		LCS Qualifier		f nit		D		4 Rec		4 Rec Limits			
1 h0rldi				250		245.5				u g/Kg				98		90 - 330			
Lab Sample ID: LCSD 880-53362/9-A										Client Sample ID: Lab Control Sample Dup									
Matrix: Solid										Prep Type: Soluble									
Analysis Batch: 53373																			
Analyte				Spike Added		LCSD Result		LCSD Qualifier		f nit		D		4 Rec		4 Rec Limits		RPD	
1 h0rldi				250		245.3				u g/Kg				98		90 - 330		0	
Lab Sample ID: 880-28727-A-13-B MS										Client Sample ID: Matrix Spike									
Matrix: Solid										Prep Type: Soluble									
Analysis Batch: 53373																			
Analyte		Sample Result		Sample Qualifier		Spike Added		MS Result		MS Qualifier		f nit		D		4 Rec		4 Rec Limits	
1 h0rldi		53.5				249		293.G				u g/Kg				96		90 - 330	
Lab Sample ID: 880-28727-A-13-C MSD										Client Sample ID: Matrix Spike Duplicate									
Matrix: Solid										Prep Type: Soluble									
Analysis Batch: 53373																			
Analyte		Sample Result		Sample Qualifier		Spike Added		MSD Result		MSD Qualifier		f nit		D		4 Rec		4 Rec Limits	
1 h0rldi		53.5				249		290.6				u g/Kg				96		90 - 330	

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

GC VOA

Prep Batch: 52195

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	5035	
890-4674-2	PH02	Total/NA	Solid	5035	
890-4674-3	PH03	Total/NA	Solid	5035	
890-4674-4	PH03A	Total/NA	Solid	5035	
890-4674-6	PH04	Total/NA	Solid	5035	
890-4674-7	PH05	Total/NA	Solid	5035	
890-4674-8	SS10	Total/NA	Solid	5035	
890-4674-9	SS11	Total/NA	Solid	5035	
890-4674-10	SS12	Total/NA	Solid	5035	
MB 880-53895/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53895/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53895/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4672-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4672-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 5d304

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	8021B	53895
890-4674-2	PH02	Total/NA	Solid	8021B	53895
890-4674-3	PH03	Total/NA	Solid	8021B	53895
890-4674-4	PH03A	Total/NA	Solid	8021B	53895
890-4674-6	PH04	Total/NA	Solid	8021B	53895
890-4674-7	PH05	Total/NA	Solid	8021B	53895
890-4674-8	SS10	Total/NA	Solid	8021B	53895
890-4674-9	SS11	Total/NA	Solid	8021B	53895
890-4674-10	SS12	Total/NA	Solid	8021B	53895
880-28390-A-5 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-53895/5-A	Method Blank	Total/NA	Solid	8021B	53895
LCS 880-53895/1-A	Lab Control Sample	Total/NA	Solid	8021B	53895
LCSD 880-53895/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53895
890-4672-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	53895
890-4672-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53895

Analysis Batch: 5d096

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	Total BTEX	
890-4674-2	PH02	Total/NA	Solid	Total BTEX	
890-4674-3	PH03	Total/NA	Solid	Total BTEX	
890-4674-4	PH03A	Total/NA	Solid	Total BTEX	
890-4674-6	PH04	Total/NA	Solid	Total BTEX	
890-4674-7	PH05	Total/NA	Solid	Total BTEX	
890-4674-8	SS10	Total/NA	Solid	Total BTEX	
890-4674-9	SS11	Total/NA	Solid	Total BTEX	
890-4674-10	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52604

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	8015B NM	53658
890-4674-2	PH02	Total/NA	Solid	8015B NM	53658

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

GC Semi VOA (Continuex)

Analysis Batch: 52604 (Continuex)

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-3	PH03	Total/NA	Solid	8015B NM	53658
890-4674-4	PH03A	Total/NA	Solid	8015B NM	53658
890-4674-6	PH04	Total/NA	Solid	8015B NM	53658
890-4674-7	PH05	Total/NA	Solid	8015B NM	53658
890-4674-8	SS10	Total/NA	Solid	8015B NM	53658
890-4674-9	SS11	Total/NA	Solid	8015B NM	53658
890-4674-10	SS12	Total/NA	Solid	8015B NM	53658
MB 880-53658/1-A	Method Blank	Total/NA	Solid	8015B NM	53658
LCS 880-53658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53658
LCSD 880-53658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53658
880-28483-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53658
880-28483-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53658

Prep Batch: 52651

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	8015NM Prep	
890-4674-2	PH02	Total/NA	Solid	8015NM Prep	
890-4674-3	PH03	Total/NA	Solid	8015NM Prep	
890-4674-4	PH03A	Total/NA	Solid	8015NM Prep	
890-4674-6	PH04	Total/NA	Solid	8015NM Prep	
890-4674-7	PH05	Total/NA	Solid	8015NM Prep	
890-4674-8	SS10	Total/NA	Solid	8015NM Prep	
890-4674-9	SS11	Total/NA	Solid	8015NM Prep	
890-4674-10	SS12	Total/NA	Solid	8015NM Prep	
MB 880-53658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28483-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28483-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52455

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Total/NA	Solid	8015 NM	
890-4674-2	PH02	Total/NA	Solid	8015 NM	
890-4674-3	PH03	Total/NA	Solid	8015 NM	
890-4674-4	PH03A	Total/NA	Solid	8015 NM	
890-4674-5	PH03B	Total/NA	Solid	8015 NM	
890-4674-6	PH04	Total/NA	Solid	8015 NM	
890-4674-7	PH05	Total/NA	Solid	8015 NM	
890-4674-8	SS10	Total/NA	Solid	8015 NM	
890-4674-9	SS11	Total/NA	Solid	8015 NM	
890-4674-10	SS12	Total/NA	Solid	8015 NM	

Prep Batch: 5dd52

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-5	PH03B	Total/NA	Solid	8015NM Prep	
MB 880-54453/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54453/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54453/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28880-A-9-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28880-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 5d520

7aL Sample II	Client Sample II	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-5	PH03B	Total/NA	Solid	8015B NM	54453
MB 880-54453/1-A	Method Blank	Total/NA	Solid	8015B NM	54453
LCS 880-54453/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54453
LCSD 880-54453/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54453
880-28880-A-9-B MS	Matrix Spike	Total/NA	Solid	8015B NM	54453
880-28880-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54453

HP7C/IC

Teach Batch: 52659

7aL Sample II	Client Sample II	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Soluble	Solid	DI Leach	
890-4674-2	PH02	Soluble	Solid	DI Leach	
MB 880-53659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28575-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28575-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Teach Batch: 52668

7aL Sample II	Client Sample II	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-3	PH03	Soluble	Solid	DI Leach	
890-4674-4	PH03A	Soluble	Solid	DI Leach	
890-4674-6	PH04	Soluble	Solid	DI Leach	
890-4674-7	PH05	Soluble	Solid	DI Leach	
890-4674-8	SS10	Soluble	Solid	DI Leach	
890-4674-9	SS11	Soluble	Solid	DI Leach	
890-4674-10	SS12	Soluble	Solid	DI Leach	
MB 880-53660/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53660/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53660/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28573-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28573-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52459

7aL Sample II	Client Sample II	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-3	PH03	Soluble	Solid	300.0	53660
890-4674-4	PH03A	Soluble	Solid	300.0	53660
890-4674-6	PH04	Soluble	Solid	300.0	53660
890-4674-7	PH05	Soluble	Solid	300.0	53660
890-4674-8	SS10	Soluble	Solid	300.0	53660
890-4674-9	SS11	Soluble	Solid	300.0	53660
890-4674-10	SS12	Soluble	Solid	300.0	53660
MB 880-53660/1-A	Method Blank	Soluble	Solid	300.0	53660
LCS 880-53660/2-A	Lab Control Sample	Soluble	Solid	300.0	53660
LCSD 880-53660/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53660
880-28573-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	53660
880-28573-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53660

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

HP7C/IC

Analysis Batch: 52468

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-1	PH01	Soluble	Solid	300.0	53659
890-4674-2	PH02	Soluble	Solid	300.0	53659
MB 880-53659/1-A	Method Blank	Soluble	Solid	300.0	53659
LCS 880-53659/2-A	Lab Control Sample	Soluble	Solid	300.0	53659
LCSD 880-53659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53659
880-28575-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	53659
880-28575-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53659

7each Batch: 5dd60

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-5	PH03B	Soluble	Solid	DI Leach	
MB 880-54462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28929-A-14-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28929-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 5dd9d

7aL Sample ID	Client Sample ID	Prep Dype	T atriM	T ethox	Prep Batch
890-4674-5	PH03B	Soluble	Solid	300.0	54462
MB 880-54462/1-A	Method Blank	Soluble	Solid	300.0	54462
LCS 880-54462/2-A	Lab Control Sample	Soluble	Solid	300.0	54462
LCSD 880-54462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54462
880-28929-A-14-B MS	Matrix Spike	Soluble	Solid	300.0	54462
880-28929-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54462

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
1 Replicate: 1 SL 1ieP e CUhaon 37

Job ID: 890-4674-3
/ Dy : 0GC3558235

Client Sample ID: BH01

Lab Sample ID: 890-4674-1

Date Collectex: 0d5d5 2 10:/ 0

3 atriM Solix

Date Receivex: 0d575 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			5g2 B	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG04:07	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g4 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG3GCG	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g7 B	50 mS	5G659	05d38dG30:56	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G760	05d20dG34:G7	CH	EEA T ID

Client Sample ID: BH0/

Lab Sample ID: 890-4674-/

Date Collectex: 0d5d5 2 1/ :20

3 atriM Solix

Date Receivex: 0d575 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			5gGB	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG04:28	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g3 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG3G55	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g7 B	50 mS	5G659	05d38dG30:56	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G760	05d20dG34:42	CH	EEA T ID

Client Sample ID: BH02

Lab Sample ID: 890-4674-2

Date Collectex: 0d5d5 2 12:00

3 atriM Solix

Date Receivex: 0d575 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			5g3 B	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		50	5 mS	5 mS	54327	05d26dG07:33	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d30dG08:53	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g0 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG34:37	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g7 B	50 mS	5G660	05d38dG33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05d20dG36:56	CH	EEA T ID

Client Sample ID: BH02A

Lab Sample ID: 890-4674-4

Date Collectex: 0d5d5 2 14:20

3 atriM Solix

Date Receivex: 0d575 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			4g7 B	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG04:48	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID

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Lab Chronicle

Client: Ensolum
1 Repj tñ ite: 1 SL 1 ieP e CUhaon 37

Job ID: 890-4674-3
/ Dy : 0GC3558235

Client Sample ID: BH02A

Date Collectex: 0d51d5 2 14:20

Date Receivex: 0d5175 2 08:/ 1

Lab Sample ID: 890-4674-4

3 atriM Solix

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	. nUasis	8035 MT		3			5G755	05c39c2G30:09	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30gGB	30 mS	5G658	05c38c2G30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05c38c2G34:08	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			5g2 B	50 mS	5G660	05c38c2G33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05c20c2G37:03	CH	EEA T ID

Client Sample ID: BH02P

Date Collectex: 0d51d5 2 14:4d

Date Receivex: 0d5175 2 08:/ 1

Lab Sample ID: 890-4674-d

3 atriM Solix

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	. nUasis	8035 MT		3			5G755	06c22c2G09:08	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g4 B	30 mS	5445G	05c38c2G30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	545G2	06c23c2G39:0G	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			5g5 B	50 mS	54462	05c33c2G09:08	f /	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	54494	05c33c2G3G58	CH	EEA T ID

Client Sample ID: BH04

Date Collectex: 0d5165 2 09:10

Date Receivex: 0d5175 2 08:/ 1

Lab Sample ID: 890-4674-6

3 atriM Solix

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G6			4g9 B	5 mS	5G895	05c22c2G34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05c26c2G05:09	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05c26c2G37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05c39c2G30:09	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30gGB	30 mS	5G658	05c38c2G30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05c38c2G35:00	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			5gGB	50 mS	5G660	05c38c2G33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05c20c2G37:37	CH	EEA T ID

Client Sample ID: BH0d

Date Collectex: 0d5165 2 09:/ d

Date Receivex: 0d5175 2 08:/ 1

Lab Sample ID: 890-4674-7

3 atriM Solix

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G6			5g2 B	5 mS	5G895	05c22c2G34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05c26c2G05:29	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05c26c2G37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05c39c2G30:09	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g2 B	30 mS	5G658	05c38c2G30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05c38c2G35:22	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g7 B	50 mS	5G660	05c38c2G33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05c20c2G37:2G	CH	EEA T ID

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Lab Chronicle

Client: Ensolum
1 Rep of 1 SL 1ieP e CUhaon 37

Job ID: 890-4674-3
/ Dy : 0GC3558235

Client Sample ID: SS10

Lab Sample ID: 890-4674-8

Date Collectex: 0d5165 2 12:d0

3 atriM Solix

Date Receivex: 0d5175 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			5g0GB	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG05:49	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g02 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG35:4G	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g05 B	50 mS	5G660	05d38dG33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05d20dG37:28	CH	EEA T ID

Client Sample ID: SS11

Lab Sample ID: 890-4674-9

Date Collectex: 0d5165 2 12:dd

3 atriM Solix

Date Receivex: 0d5175 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			5g03 B	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG06:30	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g03 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG36:28	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g05 B	50 mS	5G660	05d38dG33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05d20dG37:G9	CH	EEA T ID

Client Sample ID: SS1/

Lab Sample ID: 890-4674-10

Date Collectex: 0d5165 2 14:00

3 atriM Solix

Date Receivex: 0d5175 2 08:/ 1

Brep Type	Patch Type	Patch 3 ethox	Run	Dil Factor	Initial Amount	Final Amount	Patch Number	Breporex or Analyzex	Analyst	Lab
AotUdM.	1 Rep	50G5			4g07 B	5 mS	5G895	05d22dG34:0G	T MN	EEA T ID
AotUdM.	. nUasis	8023R		3	5 mS	5 mS	54327	05d26dG06:G0	. J	EEA T ID
AotUdM.	. nUasis	AotU RAEX		3			54296	05d26dG37:42	/ T	EEA T ID
AotUdM.	. nUasis	8035 MT		3			5G755	05d39dG30:G9	/ T	EEA T ID
AotUdM.	1 Rep	8035MT 1 Rep			30g05 B	30 mS	5G658	05d38dG30:53	. T	EEA T ID
AotUdM.	. nUasis	8035R MT		3	3 uS	3 uS	5G627	05d38dG36:50	/ T	EEA T ID
/ oluble	SeUj h	DI SeUj h			4g05 B	50 mS	5G660	05d38dG33:34	/ T C	EEA T ID
/ oluble	. nUasis	G00g		3	50 mS	50 mS	5G759	05d20dG37:G9	CH	EEA T ID

Laboratory References:
EEA T ID d EuR0Kns T i=IUh=, 3233 WgFloR=U. ve, T i=IUh=, AX 79703, AES(4G2)704-5440

EuR0Kns CURsbU=

Accreditation/Certification Summary

Client: Ensolum
1 Rrej td ite: 1 SL 1 ieP e CUhaon 37

Job ID: 890-4674-3
/ Dy : 0GC3558235

Laboratory: Eurofins Midland

Unless otherwise noted, all UnUates foPthis lUboRutoPa weRe j oveFed undePeUj h Uj j PeditUtiong eRifij Ution below.

Authority	Program	Identification Number	Expiration Date
TexUs	NESA1	T304704400-22-25	06-00-2G
The following UnUates UPe inj luded in this RepoR, but the lUboRutoPa is not j eRified ba the goveRning UuthoRta. This list mUa inj lude UnUates foPwhij h the Ugenj a does not offePj eRifij Ution.			
AnUasis Method	1 Rep Method	MURx	AnUate
8035 NM		/ olid	TotU T1H
TotU BTEX		/ olid	TotU BTEX

Method Summary

Client: Ensolum
r joæ/ tlSite: r U7 r iej/ e CBnaon 16

Job ID: 890-4564-1
SDG: 03C1228P12

Method	Method Description	Protocol	Laboratory
80P1W	VolBtile OjgBni/ Compounds (GC)	Sy 845	EET MID
TotBl WTEX	TotBl WTEX CBl/ ulBtion	TAUSOr	EET MID
8012 NM	Diesel RBnge OjgBni/ s (DRO) (GC)	Sy 845	EET MID
8012WNM	Diesel RBnge OjgBni/ s (DRO) (GC)	Sy 845	EET MID
300.0	Anions, Ion ChjomBtogjBpha	Er A	EET MID
2032	Closed Sastem r ujge Bnd TjBp	Sy 845	EET MID
8012NM r jep	Mii/ joextjB/ tion	Sy 845	EET MID
DI UeB/ h	Deionized y Btej UeB/ hing r jo/ eduje	ASTM	EET MID

Protocol References:
ASTM = ASTM IntejnBtionBl
Er A = 7 S EnvijonmentBl r jote/ tion Agen/ a
Sy 845 = "Test Methods Foj EvBluBting Solid y Bste, r hasi/ BILChemi/ Bl Methods", Thij d Edition, Novembej 1985 And Its 7 pdBtes.
TAUSOr = TestAmeji/ B UBbojBtojies, StBndBjd OpejBting r jo/ eduje

Laboratory References:
EET MID = Eujofins MidlBnd, 1P11 y . FlojidBAve, MidlBnd, TX 69601, TEU(43P)604-2440

Sample Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17

Job ID: 890-4674-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4674-1	PH01	Solid	05/15/23 10:20	05/17/23 08:21	3'
890-4674-2	PH02	Solid	05/15/23 12:30	05/17/23 08:21	3'
890-4674-3	PH03	Solid	05/15/23 13:00	05/17/23 08:21	1'
890-4674-4	PH03A	Solid	05/15/23 14:30	05/17/23 08:21	6'
890-4674-5	PH03B	Solid	05/15/23 14:45	05/17/23 08:21	8'
890-4674-6	PH04	Solid	05/16/23 09:10	05/17/23 08:21	2'
890-4674-7	PH05	Solid	05/16/23 09:25	05/17/23 08:21	3'
890-4674-8	SS10	Solid	05/16/23 13:50	05/17/23 08:21	0.5'
890-4674-9	SS11	Solid	05/16/23 13:55	05/17/23 08:21	0.5'
890-4674-10	SS12	Solid	05/16/23 14:00	05/17/23 08:21	0.5'



Environmental Testing
Xenoco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 503-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenoco.com Page 1 of 1

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

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

Project Name:	PLU Pierce Canyon 17	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558215	Due Date:			
Project Location:	32.12406,-103.89609	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT	Temp. Blank: ☒ Yes ☒ No	Well Ice: ☒ Yes ☒ No			
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	44-007		
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	3.0		
Total Containers:		Corrected Temperature:	2.8		



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
PH01	S	5/15/2023	10:20	3'	Grab/	1	X	X	X		None: NO DI Water: H ₂ O	Incident ID: NAPP2233951574
PH02	S	5/15/2023	12:30	3'	Grab/	1	X	X	X		Cool: Cool MeOH: Me	Cost Center: 1081061001
PH03	S	5/15/2023	13:00	1'	Grab/	1	X	X	X		HCl: HC HNO ₃ : HN	
PH03A	S	5/15/2023	14:30	6'	Grab/	1	X	X	X		H ₂ SO ₄ : H ₂ NaOH: Na	
PH03B (hold)	S	5/15/2023	14:45	8'	Grab/	1	X	X	X		H ₃ PO ₄ : HP NaHSO ₄ : NABIS	API: 30-015-36635
PH04	S	5/16/2023	9:10	2'	Grab/	1	X	X	X		Na ₂ S ₂ O ₃ : NaSO ₃	
PH05	S	5/16/2023	9:25	3'	Grab/	1	X	X	X		Zn Acetate+NaOH: Zn	bbellill@ensolum.com
SS10	S	5/16/2023	13:50	0.5'	Grab/	1	X	X	X		NaOH+Ascorbic Acid: SAPC	
SS11	S	5/16/2023	13:55	0.5'	Grab/	1	X	X	X			
SS12	S	5/16/2023	14:00	0.5'	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/17/23 7:30 am			
		5/17/23 08:31			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4674-3

1 SD Number: 0CC3558235

Login Number: 4674

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
1 ample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
1 amples 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 1 ampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
1 amples are received within Holding Time (excluding tests with immediate HTs)	True	
1 ample containers have legible labels.	True	
Containers are not broken or leaking.	True	
1 ample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
1 ample bottles are completely filled.	True	
1 ample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested M1/M1Ss	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (3/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4674-3

1 SD Number: 0CC3558235

Login Number: 4674

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/18/23 10:36 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
1 ample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
1 amples 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 1 ampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
1 amples are received within Holding Time (excluding tests with immediate HTs)	True	
1 ample containers have legible labels.	True	
Containers are not broken or leaking.	True	
1 ample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
1 ample bottles are completely filled.	True	
1 ample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested M1/M1Ss	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (3/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 1/5/2024 2:45:15 PM

JOB DESCRIPTION

PLU PC 17 BATTERY
03C1558215

JOB NUMBER

890-5846-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



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1/5/2024 2:45:15 PM

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

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Laboratory Job ID: 890-5846-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: PLU PC 17 BATTERY

Job ID: 890-5846-1

Job ID: 890-5846-1

Eurofins Carlsbad

Job Narrative
890-5846-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/21/2023 4:02 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 5.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-5846-1), FS 02 (890-5846-2), SW 01 (890-5846-3), FS 03 (890-5846-4), FS 04 (890-5846-5) and FS 05 (890-5846-6).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-69915 and analytical batch 880-69988 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-69915/2-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-69859 and analytical batch 880-69866 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-69859/2-A) and (MB 880-69859/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-37292-A-63-E MS) and (880-37292-A-63-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS 01 (890-5846-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-37295-A-1-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS 04 (890-5846-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-69939 and analytical batch 880-69948 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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Case Narrative

Client: Ensolum
Project: PLU PC 17 BATTERY

Job ID: 890-5846-1

Job ID: 890-5846-1 (Continued)

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Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70188 and analytical batch 880-70140 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 05 (890-5846-6), (890-5862-A-17-D), (890-5862-A-17-E MS) and (890-5862-A-17-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-70188 and analytical batch 880-70140 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70188 and analytical batch 880-70140 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 01

Lab Sample ID: 890-5846-1

Date Collected: 12/20/23 09:35

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/28/23 15:05	12/29/23 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			12/28/23 15:05	12/29/23 21:20	1
1,4-Difluorobenzene (Surr)	82		70 - 130			12/28/23 15:05	12/29/23 21:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/29/23 21:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			12/28/23 22:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *	50.5	mg/Kg		12/28/23 13:57	12/28/23 22:13	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		12/28/23 13:57	12/28/23 22:13	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		12/28/23 13:57	12/28/23 22:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			12/28/23 13:57	12/28/23 22:13	1
o-Terphenyl	95		70 - 130			12/28/23 13:57	12/28/23 22:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.05	mg/Kg			12/29/23 08:30	1

Client Sample ID: FS 02

Lab Sample ID: 890-5846-2

Date Collected: 12/20/23 09:40

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/28/23 15:05	12/29/23 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			12/28/23 15:05	12/29/23 22:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 02

Lab Sample ID: 890-5846-2

Date Collected: 12/20/23 09:40

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	83		70 - 130			12/28/23 15:05	12/29/23 22:44	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/29/23 22:44	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			12/28/23 22:38	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7	mg/Kg		12/28/23 13:57	12/28/23 22:38	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/28/23 13:57	12/28/23 22:38	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		12/28/23 13:57	12/28/23 22:38	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	110		70 - 130			12/28/23 13:57	12/28/23 22:38	1	
o-Terphenyl	124		70 - 130			12/28/23 13:57	12/28/23 22:38	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	69.5		5.00	mg/Kg			12/29/23 08:49	1	

Client Sample ID: SW 01

Lab Sample ID: 890-5846-3

Date Collected: 12/20/23 09:45

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 0 - 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/28/23 15:05	12/29/23 23:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		70 - 130			12/28/23 15:05	12/29/23 23:05	1	
1,4-Difluorobenzene (Surr)	86		70 - 130			12/28/23 15:05	12/29/23 23:05	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/29/23 23:05	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			12/28/23 22:59	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: SW 01

Lab Sample ID: 890-5846-3

Date Collected: 12/20/23 09:45

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 0 - 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 22:59	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 22:59	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 22:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	99		70 - 130			12/28/23 13:57	12/28/23 22:59	1	
o-Terphenyl	111		70 - 130			12/28/23 13:57	12/28/23 22:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	262		4.99	mg/Kg	-		12/29/23 08:56	1	

Client Sample ID: FS 03

Lab Sample ID: 890-5846-4

Date Collected: 12/21/23 09:30

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
Toluene	<0.00199	U	0.00199	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	-	12/28/23 15:05	12/29/23 23:25	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		70 - 130			12/28/23 15:05	12/29/23 23:25	1	
1,4-Difluorobenzene (Surr)	92		70 - 130			12/28/23 15:05	12/29/23 23:25	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg	-		12/29/23 23:25	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg	-		12/28/23 23:24	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 23:24	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 23:24	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	12/28/23 13:57	12/28/23 23:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130			12/28/23 13:57	12/28/23 23:24	1	
o-Terphenyl	102		70 - 130			12/28/23 13:57	12/28/23 23:24	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 03

Lab Sample ID: 890-5846-4

Date Collected: 12/21/23 09:30

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.95	mg/Kg			12/29/23 09:02	1

Client Sample ID: FS 04

Lab Sample ID: 890-5846-5

Date Collected: 12/21/23 09:40

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/28/23 15:05	12/29/23 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			12/28/23 15:05	12/29/23 23:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130			12/28/23 15:05	12/29/23 23:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/29/23 23:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/30/23 06:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/28/23 09:32	12/30/23 06:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/28/23 09:32	12/30/23 06:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/23 09:32	12/30/23 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130			12/28/23 09:32	12/30/23 06:05	1
o-Terphenyl	162	S1+	70 - 130			12/28/23 09:32	12/30/23 06:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	315		4.97	mg/Kg			12/29/23 09:09	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 05

Lab Sample ID: 890-5846-6

Date Collected: 12/21/23 10:10

Matrix: Solid

Date Received: 12/21/23 16:02

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
Toluene	<0.00200	U	0.00200	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	-	12/28/23 15:05	12/30/23 00:07	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		70 - 130			12/28/23 15:05	12/30/23 00:07	1	
1,4-Difluorobenzene (Surr)	91		70 - 130			12/28/23 15:05	12/30/23 00:07	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400	mg/Kg	-		12/30/23 00:07	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1	mg/Kg	-		01/04/24 20:58	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg	-	01/04/24 14:15	01/04/24 20:58	1	
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg	-	01/04/24 14:15	01/04/24 20:58	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg	-	01/04/24 14:15	01/04/24 20:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	171	S1+	70 - 130			01/04/24 14:15	01/04/24 20:58	1	
o-Terphenyl	173	S1+	70 - 130			01/04/24 14:15	01/04/24 20:58	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	156		5.05	mg/Kg	-		12/29/23 09:28	1	

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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)
890-5837-A-1-C MS	Matrix Spike	76	96
890-5837-A-1-D MSD	Matrix Spike Duplicate	77	93
890-5846-1	FS 01	94	82
890-5846-2	FS 02	90	83
890-5846-3	SW 01	91	86
890-5846-4	FS 03	95	92
890-5846-5	FS 04	97	93
890-5846-6	FS 05	94	91
LCS 880-69915/1-A	Lab Control Sample	122	100
LCSD 880-69915/2-A	Lab Control Sample Dup	131 S1+	101
MB 880-69915/5-A	Method Blank	88	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-37292-A-63-E MS	Matrix Spike	135 S1+	130
880-37292-A-63-F MSD	Matrix Spike Duplicate	136 S1+	127
880-37295-A-1-D MS	Matrix Spike	134 S1+	125
880-37295-A-1-E MSD	Matrix Spike Duplicate	119	111
880-37326-A-1-C MS	Matrix Spike	95	87
880-37326-A-1-D MSD	Matrix Spike Duplicate	97	87
890-5846-1	FS 01	85	95
890-5846-2	FS 02	110	124
890-5846-3	SW 01	99	111
890-5846-4	FS 03	91	102
890-5846-5	FS 04	152 S1+	162 S1+
890-5846-6	FS 05	171 S1+	173 S1+
890-5862-A-17-E MS	Matrix Spike	148 S1+	124
890-5862-A-17-F MSD	Matrix Spike Duplicate	158 S1+	136 S1+
LCS 880-69859/2-A	Lab Control Sample	123	141 S1+
LCS 880-69872/2-A	Lab Control Sample	112	121
LCS 880-69939/2-A	Lab Control Sample	102	117
LCS 880-70188/2-A	Lab Control Sample	97	109
LCSD 880-69859/3-A	Lab Control Sample Dup	101	110
LCSD 880-69872/3-A	Lab Control Sample Dup	114	128
LCSD 880-69939/3-A	Lab Control Sample Dup	104	125
LCSD 880-70188/3-A	Lab Control Sample Dup	111	119
MB 880-69859/1-A	Method Blank	43 S1-	54 S1-
MB 880-69872/1-A	Method Blank	108	124
MB 880-69939/1-A	Method Blank	109	124
MB 880-70188/1-A	Method Blank	155 S1+	173 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY
OTPH = o-Terphenyl

Job ID: 890-5846-1
SDG: 03C1558215

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- 14

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69915/5-A					Client Sample ID: Method Blank			
Matrix: Solid					Prep Type: Total/NA			
Analysis Batch: 69988					Prep Batch: 69915			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/23 15:05	12/29/23 17:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			12/29/23 1: 50:	12/28/23 175 3	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/29/23 1: 50:	12/28/23 175 3	1

Lab Sample ID: LCS 880-69915/1-A					Client Sample ID: Lab Control Sample			
Matrix: Solid					Prep Type: Total/NA			
Analysis Batch: 69988					Prep Batch: 69915			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene		0.100	0.1047		mg/Kg		105	70 - 130
Toluene		0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene		0.100	0.1180		mg/Kg		118	70 - 130
m-Xylene & p-Xylene		0.200	0.2498		mg/Kg		125	70 - 130
o-Xylene		0.100	0.1215		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	122		70 - 130					
1,4-Difluorobenzene (Surr)	100		70 - 130					

Lab Sample ID: LCSD 880-69915/2-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 69988					Prep Batch: 69915						
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Benzene			0.100	0.1025		mg/Kg		102	70 - 130	2	35
Toluene			0.100	0.09896		mg/Kg		99	70 - 130	2	35
Ethylbenzene			0.100	0.1158		mg/Kg		116	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2462		mg/Kg		123	70 - 130	1	35
o-Xylene			0.100	0.1200		mg/Kg		120	70 - 130	1	35
Surrogate			LCSD	LCSD							
			%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)			131	S1C							
1,4-Difluorobenzene (Surr)			101								

Lab Sample ID: 890-5837-A-1-C MS							Client Sample ID: Matrix Spike				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 69988							Prep Batch: 69915				
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0107		0.0996	0.08740		mg/Kg		77	70 - 130		
Toluene	0.0573		0.0996	0.07869	F1	mg/Kg		21	70 - 130		

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: 890-5837-A-1-C MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 69988							Prep Batch: 69915			
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.0293		0.0996	0.08156	F1	mg/Kg		52	70 - 130	
m-Xylene & p-Xylene	0.0907		0.199	0.1609	F1	mg/Kg		35	70 - 130	
o-Xylene	0.0601		0.0996	0.07734	F1	mg/Kg		17	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	7h		70 - 130							
1,4-Difluorobenzene (Surr)	8h		70 - 130							

Lab Sample ID: 890-5837-A-1-D MSD							Client Sample ID: Matrix Spike Duplicate				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 69988							Prep Batch: 69915				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0107		0.100	0.08779		mg/Kg		77	70 - 130	0	35
Toluene	0.0573		0.100	0.07572	F1	mg/Kg		18	70 - 130	4	35
Ethylbenzene	0.0293		0.100	0.07791	F1	mg/Kg		48	70 - 130	5	35
m-Xylene & p-Xylene	0.0907		0.201	0.1545	F1	mg/Kg		32	70 - 130	4	35
o-Xylene	0.0601		0.100	0.07465	F1	mg/Kg		14	70 - 130	4	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	77		70 - 130								
1,4-Difluorobenzene (Surr)	83		70 - 130								

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

Lab Sample ID: MB 880-69859/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 69866						Prep Batch: 69859			
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		12/28/23 09:22	12/28/23 12:09	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/28/23 09:22	12/28/23 12:09	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/23 09:22	12/28/23 12:09	1	
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-c t l o r o o a p n e	43	S1-	70 - 130			12/29/23 08:32	12/29/23 12:08	1	
o-y e r 6 t e n + l	: 4	S1-	70 - 130			12/29/23 08:32	12/29/23 12:08	1	

Lab Sample ID: LCS 880-69859/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 69866				Prep Batch: 69859						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	783.4		mg/Kg		78	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130			

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: LCS 880-69859/2-A
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69859

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-c t l o r o o a p n e	123		70 - 130
o-y e r 6 t e n + l	141	S1C	70 - 130

Lab Sample ID: LCSD 880-69859/3-A
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69859

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	645.4	*-	mg/Kg		65	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	851.6		mg/Kg		85	70 - 130	18	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-c t l o r o o a p n e	101										
o-y e r 6 t e n + l	110										

Lab Sample ID: 880-37326-A-1-C MS
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- F1	995	715.2		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	995	732.7		mg/Kg		74	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-c t l o r o o a p n e	8:										
o-y e r 6 t e n + l	97										

Lab Sample ID: 880-37326-A-1-D MSD
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69859

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	<50.2	U *- F1	995	730.2		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	995	751.8		mg/Kg		76	70 - 130	3	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-c t l o r o o a p n e	87										
o-y e r 6 t e n + l	97										

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-69872/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 69948						Prep Batch: 69872			
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		12/28/23 09:32	12/29/23 20:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/28/23 09:32	12/29/23 20:21	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/23 09:32	12/29/23 20:21	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-c t l o r o o a p n e	109		70 - 130			12/29/23 08:52	12/28/23 20:21	1	
o-y e r 6 t e n + l	124		70 - 130			12/29/23 08:52	12/28/23 20:21	1	

Lab Sample ID: LCS 880-69872/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 69948						Prep Batch: 69872			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1195		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	986.3		mg/Kg		99	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-c t l o r o o a p n e	112		70 - 130						
o-y e r 6 t e n + l	121		70 - 130						

Lab Sample ID: LCSD 880-69872/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 69948					Prep Batch: 69872						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1223		mg/Kg		122	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	994.5		mg/Kg		99	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-c t l o r o o a p n e	114		70 - 130								
o-y e r 6 t e n + l	129		70 - 130								

Lab Sample ID: 880-37295-A-1-D MS						Client Sample ID: Matrix Spike			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 69948						Prep Batch: 69872			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1000	918.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	66.1		1000	941.7		mg/Kg		87	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: 880-37295-A-1-D MS
Matrix: Solid
Analysis Batch: 69948

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69872

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-c t l o r o o a p n e	134	S1C	70 - 130
o-y e r 6 t e n + l	12		70 - 130

Lab Sample ID: 880-37295-A-1-E MSD
Matrix: Solid
Analysis Batch: 69948

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69872

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	<49.5	U	1000	1062		mg/Kg		102	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	66.1		1000	836.7		mg/Kg		77	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-c t l o r o o a p n e	118		70 - 130								
o-y e r 6 t e n + l	111		70 - 130								

Lab Sample ID: MB 880-69939/1-A
Matrix: Solid
Analysis Batch: 69948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69939

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		12/29/23 08:19	12/29/23 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/23 08:19	12/29/23 08:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/23 08:19	12/29/23 08:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-c t l o r o o a p n e	108		70 - 130			12/28/23 09:58	12/28/23 09:58	1
o-y e r 6 t e n + l	124		70 - 130			12/28/23 09:58	12/28/23 09:58	1

Lab Sample ID: LCS 880-69939/2-A
Matrix: Solid
Analysis Batch: 69948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1098		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	936.5		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-c t l o r o o a p n e	102		70 - 130				
o-y e r 6 t e n + l	117		70 - 130				

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-69939/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 69948				Prep Batch: 69939							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	953.8		mg/Kg		95	70 - 130	2	20
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
1-c t l o r o o a p n e	104		70 - 130								
o-y e r 6 t e n + l	12		70 - 130								

Lab Sample ID: 880-37292-A-63-E MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 69948				Prep Batch: 69939							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	995.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	972.5		mg/Kg		97	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1-c t l o r o o a p n e	13	S1C	70 - 130								
o-y e r 6 t e n + l	130		70 - 130								

Lab Sample ID: 880-37292-A-63-F MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 69948				Prep Batch: 69939							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1013		mg/Kg		97	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	962.1		mg/Kg		96	70 - 130	1	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-c t l o r o o a p n e	13h	S1C	70 - 130								
o-y e r 6 t e n + l	127		70 - 130								

Lab Sample ID: MB 880-70188/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 70140				Prep Batch: 70188							
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/24 07:32	01/04/24 07:53	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/24 07:32	01/04/24 07:53	1			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/24 07:32	01/04/24 07:53	1			

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-70188/1-A
Matrix: Solid
Analysis Batch: 70140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70188

Surrogate	MB MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier			Analyzed	
1-c t l o r o o a p n e	111	S1C	70 - 130	01/04/24 07532	01/04/24 0753	1
o-y e r 6 t e n + l	173	S1C	70 - 130	01/04/24 07532	01/04/24 0753	1

Lab Sample ID: LCS 880-70188/2-A
Matrix: Solid
Analysis Batch: 70140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	953.3		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-c t l o r o o a p n e	87		70 - 130
o-y e r 6 t e n + l	108		70 - 130

Lab Sample ID: LCSD 880-70188/3-A
Matrix: Solid
Analysis Batch: 70140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	976.5		mg/Kg		98	70 - 130		2	20
Diesel Range Organics (Over C10-C28)	1000	1261	*1	mg/Kg		126	70 - 130		22	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-c t l o r o o a p n e	111		70 - 130
o-y e r 6 t e n + l	118		70 - 130

Lab Sample ID: 890-5862-A-17-E MS
Matrix: Solid
Analysis Batch: 70140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1255		mg/Kg		123	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *1	1000	1536	F1	mg/Kg		149	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-c t l o r o o a p n e	149	S1C	70 - 130
o-y e r 6 t e n + l	124		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Lab Sample ID: 890-5862-A-17-F MSD

Matrix: Solid

Analysis Batch: 70140

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70188

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1383	F1	mg/Kg	-	136	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *1	1000	1678	F1	mg/Kg	-	163	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-chloro-2-methylpropane	1:9	S1C	70 - 130								
o-xylene	13h	S1C	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-69810/1-A

Matrix: Solid

Analysis Batch: 69853

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			12/29/23 08:10	1

Lab Sample ID: LCS 880-69810/2-A

Matrix: Solid

Analysis Batch: 69853

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Chloride	250	254.5		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-69810/3-A

Matrix: Solid

Analysis Batch: 69853

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCS D	LCS D				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	257.8		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-5846-1 MS

Matrix: Solid

Analysis Batch: 69853

Client Sample ID: FS 01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	154		253	414.7		mg/Kg		103	90 - 110

Lab Sample ID: 890-5846-1 MSD

Matrix: Solid

Analysis Batch: 69853

Client Sample ID: FS 01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		253	417.9		mg/Kg		105	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

GC VOA

Prep Batch: 69915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	5035	
890-5846-2	FS 02	Total/NA	Solid	5035	
890-5846-3	SW 01	Total/NA	Solid	5035	
890-5846-4	FS 03	Total/NA	Solid	5035	
890-5846-5	FS 04	Total/NA	Solid	5035	
890-5846-6	FS 05	Total/NA	Solid	5035	
MB 880-69915/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-69915/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-69915/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5837-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5837-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 69988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	8021B	69915
890-5846-2	FS 02	Total/NA	Solid	8021B	69915
890-5846-3	SW 01	Total/NA	Solid	8021B	69915
890-5846-4	FS 03	Total/NA	Solid	8021B	69915
890-5846-5	FS 04	Total/NA	Solid	8021B	69915
890-5846-6	FS 05	Total/NA	Solid	8021B	69915
MB 880-69915/5-A	Method Blank	Total/NA	Solid	8021B	69915
LCS 880-69915/1-A	Lab Control Sample	Total/NA	Solid	8021B	69915
LCSD 880-69915/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	69915
890-5837-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	69915
890-5837-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	69915

Analysis Batch: 70040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	Total BTEX	
890-5846-2	FS 02	Total/NA	Solid	Total BTEX	
890-5846-3	SW 01	Total/NA	Solid	Total BTEX	
890-5846-4	FS 03	Total/NA	Solid	Total BTEX	
890-5846-5	FS 04	Total/NA	Solid	Total BTEX	
890-5846-6	FS 05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 69859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	8015NM Prep	
890-5846-2	FS 02	Total/NA	Solid	8015NM Prep	
890-5846-3	SW 01	Total/NA	Solid	8015NM Prep	
890-5846-4	FS 03	Total/NA	Solid	8015NM Prep	
MB 880-69859/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69859/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37326-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37326-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 69866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	8015B NM	69859
890-5846-2	FS 02	Total/NA	Solid	8015B NM	69859
890-5846-3	SW 01	Total/NA	Solid	8015B NM	69859
890-5846-4	FS 03	Total/NA	Solid	8015B NM	69859
MB 880-69859/1-A	Method Blank	Total/NA	Solid	8015B NM	69859
LCS 880-69859/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69859
LCSD 880-69859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69859
880-37326-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	69859
880-37326-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69859

Prep Batch: 69872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-5	FS 04	Total/NA	Solid	8015NM Prep	
MB 880-69872/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69872/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37295-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37295-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 69939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69939/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69939/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37292-A-63-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37292-A-63-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 69948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-5	FS 04	Total/NA	Solid	8015B NM	69872
MB 880-69872/1-A	Method Blank	Total/NA	Solid	8015B NM	69872
MB 880-69939/1-A	Method Blank	Total/NA	Solid	8015B NM	69939
LCS 880-69872/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69872
LCS 880-69939/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69939
LCSD 880-69872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69872
LCSD 880-69939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69939
880-37292-A-63-E MS	Matrix Spike	Total/NA	Solid	8015B NM	69939
880-37292-A-63-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69939
880-37295-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	69872
880-37295-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69872

Analysis Batch: 69975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Total/NA	Solid	8015 NM	
890-5846-2	FS 02	Total/NA	Solid	8015 NM	
890-5846-3	SW 01	Total/NA	Solid	8015 NM	
890-5846-4	FS 03	Total/NA	Solid	8015 NM	
890-5846-5	FS 04	Total/NA	Solid	8015 NM	
890-5846-6	FS 05	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 70140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-6	FS 05	Total/NA	Solid	8015B NM	70188
MB 880-70188/1-A	Method Blank	Total/NA	Solid	8015B NM	70188
LCS 880-70188/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70188
LCSD 880-70188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70188
890-5862-A-17-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70188
890-5862-A-17-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70188

Prep Batch: 70188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-6	FS 05	Total/NA	Solid	8015NM Prep	
MB 880-70188/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70188/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5862-A-17-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5862-A-17-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 69810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Soluble	Solid	DI Leach	
890-5846-2	FS 02	Soluble	Solid	DI Leach	
890-5846-3	SW 01	Soluble	Solid	DI Leach	
890-5846-4	FS 03	Soluble	Solid	DI Leach	
890-5846-5	FS 04	Soluble	Solid	DI Leach	
890-5846-6	FS 05	Soluble	Solid	DI Leach	
MB 880-69810/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-69810/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-69810/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5846-1 MS	FS 01	Soluble	Solid	DI Leach	
890-5846-1 MSD	FS 01	Soluble	Solid	DI Leach	

Analysis Batch: 69853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5846-1	FS 01	Soluble	Solid	300.0	69810
890-5846-2	FS 02	Soluble	Solid	300.0	69810
890-5846-3	SW 01	Soluble	Solid	300.0	69810
890-5846-4	FS 03	Soluble	Solid	300.0	69810
890-5846-5	FS 04	Soluble	Solid	300.0	69810
890-5846-6	FS 05	Soluble	Solid	300.0	69810
MB 880-69810/1-A	Method Blank	Soluble	Solid	300.0	69810
LCS 880-69810/2-A	Lab Control Sample	Soluble	Solid	300.0	69810
LCSD 880-69810/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	69810
890-5846-1 MS	FS 01	Soluble	Solid	300.0	69810
890-5846-1 MSD	FS 01	Soluble	Solid	300.0	69810

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 01

Date Collected: 12/20/23 09:35

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/29/23 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/29/23 21:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			69975	12/28/23 22:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	69859	12/28/23 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 22:13	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 08:30	CH	EET MID

Client Sample ID: FS 02

Date Collected: 12/20/23 09:40

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/29/23 22:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/29/23 22:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			69975	12/28/23 22:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	69859	12/28/23 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 22:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 08:49	CH	EET MID

Client Sample ID: SW 01

Date Collected: 12/20/23 09:45

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-3

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			4.99 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/29/23 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/29/23 23:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			69975	12/28/23 22:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	69859	12/28/23 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 08:56	CH	EET MID

Client Sample ID: FS 03

Date Collected: 12/21/23 09:30

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/29/23 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/29/23 23:25	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Client Sample ID: FS 03

Date Collected: 12/21/23 09:30

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-4

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			69975	12/28/23 23:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	69859	12/28/23 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 23:24	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 09:02	CH	EET MID

Client Sample ID: FS 04

Date Collected: 12/21/23 09:40

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/29/23 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/29/23 23:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			69975	12/30/23 06:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	69872	12/28/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69948	12/30/23 06:05	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 09:09	CH	EET MID

Client Sample ID: FS 05

Date Collected: 12/21/23 10:10

Date Received: 12/21/23 16:02

Lab Sample ID: 890-5846-6

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			5.00 g	5 mL	69915	12/28/23 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69988	12/30/23 00:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70040	12/30/23 00:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			69975	01/04/24 20:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70188	01/04/24 14:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70140	01/04/24 20:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69810	12/27/23 15:06	SA	EET MID
Soluble	Analysis	300.0		1			69853	12/29/23 09:28	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5846-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5846-1	FS 01	Solid	12/20/23 09:35	12/21/23 16:02	3'
890-5846-2	FS 02	Solid	12/20/23 09:40	12/21/23 16:02	3'
890-5846-3	SW 01	Solid	12/20/23 09:45	12/21/23 16:02	0 - 3'
890-5846-4	FS 03	Solid	12/21/23 09:30	12/21/23 16:02	3'
890-5846-5	FS 04	Solid	12/21/23 09:40	12/21/23 16:02	3'
890-5846-6	FS 05	Solid	12/21/23 10:10	12/21/23 16:02	3'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



890-5846 Chain-of-Custody

Page 1 of 1

Project Manager:	Ben Belli	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Park Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989 854 0852	Email:	Garrett.Green@ExxonMobil.com

Project Name:	PUMP 11 Battery	Turn Around	☒ Routine ☐ Rush
Project Number:	03C1558215	Due Date:	5 days
Project Location:	32-12406-103 89009	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Mariana O'Dell		
PO #:			

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	TMM007		
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2		
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	5.4		
Total Containers:		Corrected Temperature:	5.2		

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: ☐

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code			
FS01	S	12/20/23	9:35	3'	C	1	Chlorides			None: NO	DI Water: H ₂ O
FS02	S	↓	9:40	3'	C	1	TPH			Cool: Cool	MeOH: Me
SW01	S	↓	9:45	0-3'	C	1				HCL: HC	HNO ₃ : HN
FS03	S	12/21/23	9:30	3'	C	1				H ₂ SO ₄ : H ₂	NaOH: Na
FS04	S	↓	9:40	3'	C	1				H ₃ PO ₄ : HP	
FS05	S	↓	10:10	3'	C	1				NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
Sample Comments											
Incident #:											
NAPP2233951514											
Cost Center:											
1081061001											
Ben Belli:											
bbelli@ensolum.com											

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client; if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/21/2023			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5846-1

SDG Number: 03C1558215

Login Number: 5846
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5846-1
SDG Number: 03C1558215

Login Number: 5846
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/27/23 04:19 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/4/2024 3:08:19 PM

JOB DESCRIPTION

PLU PC 17 BATTERY
03C1558215

JOB NUMBER

890-5856-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
1/4/2024 3:08:19 PM

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

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Laboratory Job ID: 890-5856-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: PLU PC 17 BATTERY

Job ID: 890-5856-1

Job ID: 890-5856-1

Eurofins Carlsbad

Job Narrative 890-5856-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/28/2023 3:51 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 06 (890-5856-1), FS 07 (890-5856-2), FS 08 (890-5856-3), FS 09 (890-5856-4), FS 10 (890-5856-5), FS 11 (890-5856-6), FS 12 (890-5856-7), FS 13 (890-5856-8), FS 14 (890-5856-9), FS 15 (890-5856-10), FS 16 (890-5856-11), FS 17 (890-5856-12), FS 18 (890-5856-13), FS 19 (890-5856-14), FS 20 (890-5856-15), SW 02 (890-5856-16), SW 03 (890-5856-17), SW 04 (890-5856-18), SW 05 (890-5856-19), SW 06 (890-5856-20), SW 07 (890-5856-21), SW 08 (890-5856-22) and SW 09 (890-5856-23).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW 08 (890-5856-22), SW 09 (890-5856-23) and (890-5858-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70068 and analytical batch 880-70122 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70055 and analytical batch 880-70094 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS 09 (890-5856-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70027 and analytical batch 880-70003 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-70028 and analytical batch 880-70087 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project: PLU PC 17 BATTERY

Job ID: 890-5856-1

Job ID: 890-5856-1 (Continued)

Eurofins Carlsbad

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Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 06

Lab Sample ID: 890-5856-1

Date Collected: 12/28/23 10:55

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		01/02/24 14:37	01/03/24 11:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		01 - 321			13/18/84 3450	13/12/84 3359	3
3:4-, Difluorobenzene (Surr)	314		01 - 321			13/18/84 3450	13/12/84 3359	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/24 11:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	606		49.8	mg/Kg			01/03/24 10:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/02/24 09:47	01/03/24 10:31	1
Diesel Range Organics (Over C10-C28)	606	F1	49.8	mg/Kg		01/02/24 09:47	01/03/24 10:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/02/24 09:47	01/03/24 10:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-i Chlorohd ne	314		01 - 321			13/18/84 1a50	13/12/84 3153	3
o-TerpCenyl	334		01 - 321			13/18/84 1a50	13/12/84 3153	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.99	mg/Kg			01/02/24 20:41	1

Client Sample ID: FS 07

Lab Sample ID: 890-5856-2

Date Collected: 12/28/23 11:00

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/02/24 14:37	01/03/24 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		01 - 321			13/18/84 3450	13/12/84 3854	3

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 07

Lab Sample ID: 890-5856-2

Date Collected: 12/28/23 11:00

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3:4-, Fluorobenzene (Surr)	310		01 - 321	13/18/84 3450	13/12/84 3854	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/03/24 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.0		50.5	mg/Kg			01/03/24 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 11:37	1
Diesel Range Organics (Over C10-C28)	52.0		50.5	mg/Kg		01/02/24 09:47	01/03/24 11:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 11:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-i Chlorohd ne	a7		01 - 321			13/18/84 1a50	13/12/84 3350	3
o-TerpCenyl	313		01 - 321			13/18/84 1a50	13/12/84 3350	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		4.95	mg/Kg			01/02/24 20:57	1

Client Sample ID: FS 08

Lab Sample ID: 890-5856-3

Date Collected: 12/28/23 11:05

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	313		01 - 321			13/18/84 3450	13/12/84 385a	3
3:4-, Fluorobenzene (Surr)	316		01 - 321			13/18/84 3450	13/12/84 385a	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/24 12:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/03/24 11:59	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 08

Lab Sample ID: 890-5856-3

Date Collected: 12/28/23 11:05

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/02/24 09:47	01/03/24 11:59	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/02/24 09:47	01/03/24 11:59	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/02/24 09:47	01/03/24 11:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	a9		01 - 321			13/18/84 1a50	13/12/84 335a	3	
o-TerpCenyl	317		01 - 321			13/18/84 1a50	13/12/84 335a	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	12.2		5.05	mg/Kg			01/02/24 21:02	1	

Client Sample ID: FS 09

Lab Sample ID: 890-5856-4

Date Collected: 12/28/23 11:10

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
Toluene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/02/24 14:37	01/03/24 13:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	6a	S3-	01 - 321			13/18/84 3450	13/12/84 325a	3	
3:4-, Fluorobenzene (Surr)	336		01 - 321			13/18/84 3450	13/12/84 325a	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/03/24 13:19	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	51.2		49.9	mg/Kg			01/03/24 12:21	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/02/24 09:47	01/03/24 12:21	1	
Diesel Range Organics (Over C10-C28)	51.2		49.9	mg/Kg		01/02/24 09:47	01/03/24 12:21	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/02/24 09:47	01/03/24 12:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	317		01 - 321			13/18/84 1a50	13/12/84 3853	3	
o-TerpCenyl	334		01 - 321			13/18/84 1a50	13/12/84 3853	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 09

Lab Sample ID: 890-5856-4

Date Collected: 12/28/23 11:10

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	118		4.95	mg/Kg			01/02/24 21:07	1	

Client Sample ID: FS 10

Lab Sample ID: 890-5856-5

Date Collected: 12/28/23 11:25

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
Toluene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/02/24 14:37	01/03/24 13:40	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	311		01 - 321			13/18/84 3430	13/12/84 3251	3	
3:4-, Difluorobenzene (Surr)	312		01 - 321			13/18/84 3430	13/12/84 3251	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/24 13:40	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	76.3		49.9	mg/Kg			01/03/24 12:43	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/02/24 09:47	01/03/24 12:43	1	
Diesel Range Organics (Over C10-C28)	76.3		49.9	mg/Kg		01/02/24 09:47	01/03/24 12:43	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/02/24 09:47	01/03/24 12:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	310		01 - 321			13/18/84 1a50	13/12/84 38512	3	
o-TerpCenyl	336		01 - 321			13/18/84 1a50	13/12/84 38512	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	9.07		4.97	mg/Kg			01/02/24 21:12	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 11

Lab Sample ID: 890-5856-6

Date Collected: 12/28/23 12:00

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
Toluene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/02/24 14:37	01/03/24 14:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	311		01 - 321			13/18/84 3450	13/12/84 3451	3	
3:4-, Difluorobenzene (Surr)	319		01 - 321			13/18/84 3450	13/12/84 3451	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/03/24 14:00	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			01/03/24 13:05	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 13:05	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 13:05	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 13:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-m Chlorobenzene	a8		01 - 321			13/18/84 1a50	13/12/84 32517	3	
o-Terphenyl	a6		01 - 321			13/18/84 1a50	13/12/84 32517	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	9.02		5.02	mg/Kg			01/02/24 21:27	1	

Client Sample ID: FS 12

Lab Sample ID: 890-5856-7

Date Collected: 12/28/23 12:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/02/24 14:37	01/03/24 17:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	a7		01 - 321			13/18/84 3450	13/12/84 3051	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 12

Lab Sample ID: 890-5856-7

Date Collected: 12/28/23 12:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3:4-, mFluorobenzene (Surr)	317		01 - 321			13/18/84 34520	13/12/84 30531	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/24 17:10	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	164		50.3	mg/Kg			01/03/24 13:26	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		01/02/24 09:47	01/03/24 13:26	1	
Diesel Range Organics (Over C10-C28)	164		50.3	mg/Kg		01/02/24 09:47	01/03/24 13:26	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/02/24 09:47	01/03/24 13:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	334		01 - 321			13/18/84 1a540	13/12/84 32566	3	
o-TerpCenyl	388		01 - 321			13/18/84 1a540	13/12/84 32566	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	41.0		5.05	mg/Kg			01/02/24 21:33	1	

Client Sample ID: FS 13

Lab Sample ID: 890-5856-8

Date Collected: 12/28/23 09:40

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/02/24 14:37	01/03/24 17:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	313		01 - 321			13/18/84 34520	13/12/84 30521	3	
3:4-, mFluorobenzene (Surr)	312		01 - 321			13/18/84 34520	13/12/84 30521	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/24 17:30	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	791		50.1	mg/Kg			01/03/24 13:48	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 13

Lab Sample ID: 890-5856-8

Date Collected: 12/28/23 09:40

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/02/24 09:47	01/03/24 13:48	1	
Diesel Range Organics (Over C10-C28)	791		50.1	mg/Kg		01/02/24 09:47	01/03/24 13:48	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/02/24 09:47	01/03/24 13:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	336		01 - 321			13/18/84 1a50	13/12/84 325f9	3	
o-TerpCenyl	381		01 - 321			13/18/84 1a50	13/12/84 325f9	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	172		4.98	mg/Kg			01/02/24 21:38	1	

Client Sample ID: FS 14

Lab Sample ID: 890-5856-9

Date Collected: 12/28/23 09:45

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 17:51	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	319		01 - 321			13/18/84 3450	13/12/84 30573	3	
3:4-, Fluorobenzene (Surr)	339		01 - 321			13/18/84 3450	13/12/84 30573	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/03/24 17:51	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	74.1		50.5	mg/Kg			01/03/24 14:10	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 14:10	1	
Diesel Range Organics (Over C10-C28)	74.1		50.5	mg/Kg		01/02/24 09:47	01/03/24 14:10	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 14:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Cloroohd ne	330		01 - 321			13/18/84 1a50	13/12/84 345f1	3	
o-TerpCenyl	380		01 - 321			13/18/84 1a50	13/12/84 345f1	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 14
Date Collected: 12/28/23 09:45
Date Received: 12/28/23 15:51
Sample Depth: 4'

Lab Sample ID: 890-5856-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	111		5.02	mg/Kg			01/02/24 21:43	1	

Client Sample ID: FS 15
Date Collected: 12/28/23 09:50
Date Received: 12/28/23 15:51
Sample Depth: 4'

Lab Sample ID: 890-5856-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
Toluene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/02/24 14:37	01/03/24 18:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	31a		01 - 321			13/18/84 34320	13/12/84 39533	3	
3:4-, Difluorobenzene (Surr)	316		01 - 321			13/18/84 34320	13/12/84 39533	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/03/24 18:11	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg			01/03/24 14:32	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 14:32	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 14:32	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 14:32	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-methylchlorobenzene	310		01 - 321			13/18/84 1a540	13/12/84 34328	3	
o-terphenyl	330		01 - 321			13/18/84 1a540	13/12/84 34328	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	22.9		4.98	mg/Kg			01/02/24 21:48	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 16
Date Collected: 12/28/23 13:00
Date Received: 12/28/23 15:51
Sample Depth: 4'

Lab Sample ID: 890-5856-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
Toluene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/02/24 14:37	01/03/24 20:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	a2		01 - 321			13/18/84 3450	13/12/84 8158	3	
3:4-, Difluorobenzene (Surr)	316		01 - 321			13/18/84 3450	13/12/84 8158	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/24 20:02	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	52.8		49.7	mg/Kg			01/03/24 15:17	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/02/24 09:47	01/03/24 15:17	1	
Diesel Range Organics (Over C10-C28)	52.8		49.7	mg/Kg		01/02/24 09:47	01/03/24 15:17	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/02/24 09:47	01/03/24 15:17	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	a9		01 - 321			13/18/84 1a50	13/12/84 3750	3	
o-TerpCenyl	314		01 - 321			13/18/84 1a50	13/12/84 3750	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	75.0		4.95	mg/Kg			01/02/24 21:53	1	

Client Sample ID: FS 17
Date Collected: 12/28/23 13:05
Date Received: 12/28/23 15:51
Sample Depth: 3'

Lab Sample ID: 890-5856-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 20:22	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	a9		01 - 321			13/18/84 3450	13/12/84 8158	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 17

Lab Sample ID: 890-5856-12

Date Collected: 12/28/23 13:05

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3:4-, mFluorobenzene (Surr)	310		01 - 321			13/18/84 34520	13/12/84 81588	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/24 20:22	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8	mg/Kg			01/03/24 15:39	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/02/24 09:47	01/03/24 15:39	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/02/24 09:47	01/03/24 15:39	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/02/24 09:47	01/03/24 15:39	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	331		01 - 321			13/18/84 1a540	13/12/84 3752a	3	
o-TerpCenyl	33a		01 - 321			13/18/84 1a540	13/12/84 3752a	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	124		4.98	mg/Kg			01/02/24 22:08	1	

Client Sample ID: FS 18

Lab Sample ID: 890-5856-13

Date Collected: 12/28/23 13:10

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 20:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	331		01 - 321			13/18/84 34520	13/12/84 81582	3	
3:4-, mFluorobenzene (Surr)	333		01 - 321			13/18/84 34520	13/12/84 81582	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/03/24 20:43	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			01/03/24 16:02	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 18

Lab Sample ID: 890-5856-13

Date Collected: 12/28/23 13:10

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 16:02	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 16:02	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 16:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Cloroohd ne	312		01 - 321			13/18/84 1a50	13/12/84 3658	3	
o-TerpCenyl	338		01 - 321			13/18/84 1a50	13/12/84 3658	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	53.9		4.98	mg/Kg			01/02/24 22:14	1	

Client Sample ID: FS 19

Lab Sample ID: 890-5856-14

Date Collected: 12/28/23 13:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 21:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	337		01 - 321			13/18/84 3430	13/12/84 8352	3	
3:4-, Fluorobenzene (Surr)	319		01 - 321			13/18/84 3430	13/12/84 8352	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/24 21:03	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.3	U	50.3	mg/Kg			01/03/24 16:24	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		01/02/24 09:47	01/03/24 16:24	1	
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/02/24 09:47	01/03/24 16:24	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/02/24 09:47	01/03/24 16:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Cloroohd ne	314		01 - 321			13/18/84 1a50	13/12/84 3654	3	
o-TerpCenyl	333		01 - 321			13/18/84 1a50	13/12/84 3654	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: FS 19

Lab Sample ID: 890-5856-14

Date Collected: 12/28/23 13:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.99	mg/Kg			01/02/24 22:29	1

Client Sample ID: FS 20

Lab Sample ID: 890-5856-15

Date Collected: 12/28/23 13:30

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/02/24 14:37	01/03/24 21:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	319		01 - 321			13/18/84 3430	13/12/84 8384	3
3,4-Difluorobenzene (Surr)	330		01 - 321			13/18/84 3430	13/12/84 8384	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/03/24 21:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/03/24 16:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/02/24 09:47	01/03/24 16:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/02/24 09:47	01/03/24 16:47	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/02/24 09:47	01/03/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-methylchlorobenzene	26		01 - 321			13/18/84 1a50	13/12/84 3650	3
o-Terphenyl	314		01 - 321			13/18/84 1a50	13/12/84 3650	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.2		5.05	mg/Kg			01/02/24 22:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 02

Lab Sample ID: 890-5856-16

Date Collected: 12/28/23 10:40

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/02/24 14:37	01/03/24 21:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	311		01 - 321			13/18/84 3450	13/12/84 8357	3
3:4-, Difluorobenzene (Surr)	310		01 - 321			13/18/84 3450	13/12/84 8357	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/03/24 21:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/03/24 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/02/24 09:47	01/03/24 17:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/02/24 09:47	01/03/24 17:10	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/02/24 09:47	01/03/24 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-i Chlorohd ne	311		01 - 321			13/18/84 1a50	13/12/84 3051	3
o-TerpCenyl	310		01 - 321			13/18/84 1a50	13/12/84 3051	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.97	mg/Kg			01/02/24 22:39	1

Client Sample ID: SW 03

Lab Sample ID: 890-5856-17

Date Collected: 12/28/23 10:45

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/02/24 14:37	01/03/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	382		01 - 321			13/18/84 3450	13/12/84 8857	3

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 03

Lab Sample ID: 890-5856-17

Date Collected: 12/28/23 10:45

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3:4-, fluorobenzene (Surr)	331		01 - 321			13/18/84 34520	13/12/84 88517	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/24 22:05	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg			01/03/24 17:32	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 17:32	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 17:32	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/02/24 09:47	01/03/24 17:32	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	338		01 - 321			13/18/84 1a510	13/12/84 30528	3	
o-TerpCenyl	330		01 - 321			13/18/84 1a510	13/12/84 30528	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	97.6		5.02	mg/Kg			01/02/24 22:45	1	

Client Sample ID: SW 04

Lab Sample ID: 890-5856-18

Date Collected: 12/28/23 11:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/02/24 14:37	01/03/24 22:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	331		01 - 321			13/18/84 34520	13/12/84 88516	3	
3:4-, fluorobenzene (Surr)	336		01 - 321			13/18/84 34520	13/12/84 88516	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/24 22:26	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			01/03/24 17:55	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 04

Lab Sample ID: 890-5856-18

Date Collected: 12/28/23 11:15

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 17:55	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 17:55	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 17:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	319		01 - 321			13/18/84 1a50	13/12/84 30577	3	
o-TerpCenyl	337		01 - 321			13/18/84 1a50	13/12/84 30577	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	13.4		5.01	mg/Kg	-		01/02/24 22:50	1	

Client Sample ID: SW 05

Lab Sample ID: 890-5856-19

Date Collected: 12/28/23 11:20

Matrix: Solid

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
Toluene	<0.00198	U	0.00198	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	-	01/02/24 14:37	01/03/24 22:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	a0		01 - 321			13/18/84 34320	13/12/84 88516	3	
3:4-, Fluorobenzene (Surr)	319		01 - 321			13/18/84 34320	13/12/84 88516	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg	-		01/03/24 22:46	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg	-		01/03/24 18:17	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	-	01/02/24 09:47	01/03/24 18:17	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	01/02/24 09:47	01/03/24 18:17	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	01/02/24 09:47	01/03/24 18:17	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	aa		01 - 321			13/18/84 1a50	13/12/84 39530	3	
o-TerpCenyl	310		01 - 321			13/18/84 1a50	13/12/84 39530	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 05

Date Collected: 12/28/23 11:20

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Lab Sample ID: 890-5856-19

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	7.18		4.99	mg/Kg	-		01/02/24 22:55	1	

Client Sample ID: SW 06

Date Collected: 12/28/23 09:55

Date Received: 12/28/23 15:51

Sample Depth: 0-4'

Lab Sample ID: 890-5856-20

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
Toluene	<0.00201	U	0.00201	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	-	01/02/24 14:37	01/03/24 23:07	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	316		01 - 321			13/18/84 3430	13/12/84 8250	3	
3:4-, Difluorobenzene (Surr)	333		01 - 321			13/18/84 3430	13/12/84 8250	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg	-		01/03/24 23:07	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg	-		01/03/24 18:39	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 18:39	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 18:39	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	-	01/02/24 09:47	01/03/24 18:39	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-methylchlorobenzene	a2		01 - 321			13/18/84 1a50	13/12/84 3952a	3	
o-terphenyl	aa		01 - 321			13/18/84 1a50	13/12/84 3952a	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	16.5		5.00	mg/Kg	-		01/02/24 23:00	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 07
Date Collected: 12/28/23 10:00
Date Received: 12/28/23 15:51
Sample Depth: 0-4'

Lab Sample ID: 890-5856-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
Toluene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/02/24 14:53	01/03/24 06:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	aa		01 - 321			13/18/84 3452	13/12/84 1658	3	
3:4-, Difluorobenzene (Surr)	97		01 - 321			13/18/84 3452	13/12/84 1658	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/24 06:02	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	76.2		50.4	mg/Kg			01/03/24 03:37	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/02/24 09:44	01/03/24 03:37	1	
Diesel Range Organics (Over C10-C28)	76.2		50.4	mg/Kg		01/02/24 09:44	01/03/24 03:37	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/02/24 09:44	01/03/24 03:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	333		01 - 321			13/18/84 1a54	13/12/84 1250	3	
o-TerpCenyl	382		01 - 321			13/18/84 1a54	13/12/84 1250	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	179		4.96	mg/Kg			01/02/24 23:42	1	

Client Sample ID: SW 08
Date Collected: 12/28/23 13:20
Date Received: 12/28/23 15:51
Sample Depth: 0-3'

Lab Sample ID: 890-5856-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/02/24 15:53	01/03/24 19:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	341	S3+	01 - 321			13/18/84 3752	13/12/84 3a57	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 08
Date Collected: 12/28/23 13:20
Date Received: 12/28/23 15:51
Sample Depth: 0-3'

Lab Sample ID: 890-5856-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3:4-, Fluorobenzene (Surr)	316		01 - 321			13/18/84 3752	13/12/84 3a27	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/24 19:35	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	156		50.5	mg/Kg			01/03/24 03:59	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/02/24 09:44	01/03/24 03:59	1	
Diesel Range Organics (Over C10-C28)	156		50.5	mg/Kg		01/02/24 09:44	01/03/24 03:59	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/02/24 09:44	01/03/24 03:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	314		01 - 321			13/18/84 1a54	13/12/84 125a	3	
o-TerpCenyl	336		01 - 321			13/18/84 1a54	13/12/84 125a	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	76.8		5.00	mg/Kg			01/02/24 23:57	1	

Client Sample ID: SW 09
Date Collected: 12/28/23 13:25
Date Received: 12/28/23 15:51
Sample Depth: 0-3'

Lab Sample ID: 890-5856-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
Toluene	<0.00198	U	0.00198	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/02/24 15:53	01/03/24 20:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	320	S3+	01 - 321			13/18/84 3752	13/12/84 8158	3	
3:4-, Fluorobenzene (Surr)	97		01 - 321			13/18/84 3752	13/12/84 8158	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/03/24 20:02	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8	mg/Kg			01/03/24 04:20	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Client Sample ID: SW 09
Date Collected: 12/28/23 13:25
Date Received: 12/28/23 15:51
Sample Depth: 0-3'

Lab Sample ID: 890-5856-23
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/02/24 09:44	01/03/24 04:20	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/02/24 09:44	01/03/24 04:20	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/02/24 09:44	01/03/24 04:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-i Chlorohd ne	99		01 - 321			13/18/84 1a544	13/12/84 14381	3	
o-TerpCenyl	333		01 - 321			13/18/84 1a544	13/12/84 14381	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<4.99	U	4.99	mg/Kg			01/03/24 00:02	1	

Surrogate Summary

1 0 en t eEoGu
2 0ri j rmlri : 2/ L 21 6U7BAAt TR

Job ID: 890-5854-6
mDS: 0G1 6558365

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)
890-5854-6	Mn04	85	60Y
890-5854-6 a m	Mn04	9Y	60Y
890-5854-6 a mD	Mn04	60Y	98
890-5854-3	Mn0U	88	60U
890-5854-G	Mn08	606	604
890-5854-Y	Mn09	49 m6-	664
890-5854-5	Mn60	600	60G
890-5854-4	Mn66	600	608
890-5854-U	Mn63	95	605
890-5854-8	Mn6G	606	60G
890-5854-9	Mn6Y	608	668
890-5854-60	Mn65	609	604
890-5854-66	Mn64	9G	604
890-5854-63	Mn6U	98	60U
890-5854-6G	Mn68	660	666
890-5854-6Y	Mn69	665	608
890-5854-65	Mn30	608	66U
890-5854-64	mX 03	600	60U
890-5854-6U	mX 0G	63G	660
890-5854-68	mX 0Y	660	664
890-5854-69	mX 05	9U	608
890-5854-30	mX 04	604	666
890-5854-36	mX 0U	99	85
890-5854-33	mX 08	6Y0 m6p	604
890-5854-3G	mX 09	6GU m6p	85
890-5858-B-6-1 a m	a k rRF mVWi	665	609
890-5858-B-6-D a mD	a k rRF mVWi DsVWj kri	638	94
890-5846-B-6-t a m	a k rRF mVWi	609	95
890-5846-B-6-Ma mD	a k rRF mVWi DsVWj kri	663	60G
/ 1 m880-U0055d-B	/ kb 1 oerRbOnku Vd	608	605
/ 1 m880-U0058d-B	/ kb 1 oerRbOnku Vd	668	603
/ 1 m880-U0048d-B	/ kb 1 oerRbOnku Vd	603	UY
/ 1 mD 880-U0055d-B	/ kb 1 oerRbOnku Vd DsW	99	60G
/ 1 mD 880-U0058d-B	/ kb 1 oerRbOnku Vd DsW	60Y	9U
/ 1 mD 880-U0048d-B	/ kb 1 oerRbOnku Vd DsW	664	86
a 7 880-49933d-B	a i rhod 7 Qe+	96	8Y
a 7 880-U0055d-B	a i rhod 7 Qe+	609	636
a 7 880-U0058d-B	a i rhod 7 Qe+	84	8G
a 7 880-U0048d-B	a i rhod 7 Qe+	80	636

Surrogate Legend

7M = Y-7Ru ofGoRbbi ezi ei (msFF)
DMZ = 6,Y-DIfGoRbbi ezi ei (msFF)

Surrogate Summary

1 Q en t eEoGu
2 Pbi j rmlri : 2 / L 21 6U7BAAt TR

Job ID: 890-5854-6
mDS: 0G1 6558365

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)
890-5854-6	Mn04	60Y	66Y
890-5854-6 a m	Mn04	66U	66U
890-5854-6 a mD	Mn04	600	600
890-5854-3	Mn0U	95	606
890-5854-G	Mn08	98	605
890-5854-Y	Mn09	605	66Y
890-5854-5	Mn60	60U	664
890-5854-4	Mn66	93	94
890-5854-U	Mn63	66Y	633
890-5854-8	Mn6G	664	630
890-5854-9	Mn6Y	66U	63U
890-5854-60	Mn65	60U	66U
890-5854-66	Mn64	98	60Y
890-5854-63	Mn6U	660	669
890-5854-6G	Mn68	60G	663
890-5854-6Y	Mn69	60Y	666
890-5854-65	Mn30	94	60Y
890-5854-64	mrx 03	600	60U
890-5854-6U	mrx 0G	663	66U
890-5854-68	mrx 0Y	608	665
890-5854-69	mrx 05	99	60U
890-5854-30	mrx 04	9G	99
890-5854-36	mrx 0U	666	63G
890-5854-33	mrx 08	60Y	664
890-5854-3G	mrx 09	98	666
890-5846-B-6-7 a m	a k rRF mVWi	638	635
890-5846-B-6-1 a mD	a k rRF mVWi DsW	66U	66G
/ 1 m880-U003U3-B	/ kb 1 oerRbOrku VC	99	630
/ 1 m880-U00383-B	/ kb 1 oerRbOrku VC	603	668
/ 1 mD 880-U003UtG-B	/ kb 1 oerRbOrku VC DsW	605	634
/ 1 mD 880-U00383B	/ kb 1 oerRbOrku VC DsW	60G	630
a 7 880-U003U6-B	a i rhod 7 &e+	95	66G
a 7 880-U00386-B	a i rhod 7 &e+	9Y	609

Surrogate Legend

61 O = 6-1 h@Rboj rkei
OA2H = o-Ai PWi eyC

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69922/5-A						Client Sample ID: Method Blank				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 70013						Prep Batch: 69922				
	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/23 15:49	01/02/24 11:29	1		
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	91		70 - 130			12/28/23 15:49	01/02/24 11:29	1		
1,4-Difluorobenzene (Surr)	84		70 - 130			12/28/23 15:49	01/02/24 11:29	1		

Lab Sample ID: MB 880-70055/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 70094						Prep Batch: 70055		
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/02/24 14:37	01/03/24 11:09	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/02/24 14:37	01/03/24 11:09	1
1,4-Difluorobenzene (Surr)	121		70 - 130			01/02/24 14:37	01/03/24 11:09	1

Lab Sample ID: LCS 880-70055/1-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 70094						Prep Batch: 70055					
Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Benzene			0.100	0.1076		mg/Kg		108	70 - 130		
Toluene			0.100	0.09419		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.1069		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2271		mg/Kg		114	70 - 130		
o-Xylene			0.100	0.1115		mg/Kg		111	70 - 130		
Surrogate			LCS	LCS							
			%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)			108								
1,4-Difluorobenzene (Surr)			105								

Lab Sample ID: LCSD 880-70055/2-A						Client Sample ID: Lab Control Sample Dup			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 70094						Prep Batch: 70055			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene		0.100	0.1044		mg/Kg		104	70 - 130	3 35

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-70055/2-A

Matrix: Solid

Analysis Batch: 70094

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09680		mg/Kg		97	70 - 130		3	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130		6	35
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130		10	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130		11	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-5856-1 MS

Matrix: Solid

Analysis Batch: 70094

Client Sample ID: FS 06

Prep Type: Total/NA

Prep Batch: 70055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00201	U F1	0.101	0.03150	F1	mg/Kg		31	70 - 130	
Toluene	<0.00201	U F1	0.101	0.03483	F1	mg/Kg		35	70 - 130	
Ethylbenzene	<0.00201	U F1	0.101	0.04431	F1	mg/Kg		44	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.04333	F1	mg/Kg		21	70 - 130	
o-Xylene	<0.00201	U F1	0.101	0.04595	F1	mg/Kg		46	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-5856-1 MSD

Matrix: Solid

Analysis Batch: 70094

Client Sample ID: FS 06

Prep Type: Total/NA

Prep Batch: 70055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00201	U F1	0.100	0.03825	F1	mg/Kg		38	70 - 130		19	35
Toluene	<0.00201	U F1	0.100	0.04239	F1	mg/Kg		42	70 - 130		20	35
Ethylbenzene	<0.00201	U F1	0.100	0.04735	F1	mg/Kg		47	70 - 130		7	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.04611	F1	mg/Kg		23	70 - 130		6	35
o-Xylene	<0.00201	U F1	0.100	0.05370	F1	mg/Kg		54	70 - 130		16	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-70058/5-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70058

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:53	01/02/24 22:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/02/24 14:53	01/02/24 22:07	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-70058/5-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70058

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/02/24 14:53	01/02/24 22:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130			01/02/24 14:53	01/02/24 22:07	1

Lab Sample ID: LCS 880-70058/1-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09477		mg/Kg		95	70 - 130
Toluene	0.100	0.08769		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09614		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	118		70 - 130				
1,4-Difluorobenzene (Surr)	102		70 - 130				

Lab Sample ID: LCSD 880-70058/2-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08774		mg/Kg		88	70 - 130	8	35
Toluene	0.100	0.08310		mg/Kg		83	70 - 130	5	35
Ethylbenzene	0.100	0.09512		mg/Kg		95	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	4	35
o-Xylene	0.100	0.09664		mg/Kg		97	70 - 130	18	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 890-5861-A-1-E MS

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08370		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07654		mg/Kg		76	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07977		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1587		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08022		mg/Kg		80	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: 890-5861-A-1-E MS

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70058

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-5861-A-1-F MSD

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08536		mg/Kg		86	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.07556		mg/Kg		76	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.07824		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1561		mg/Kg		79	70 - 130	2	35
o-Xylene	<0.00199	U	0.0990	0.07770		mg/Kg		78	70 - 130	3	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-70068/5-A

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70068

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 15:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 15:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 15:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/02/24 15:53	01/03/24 15:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/02/24 15:53	01/03/24 15:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/02/24 15:53	01/03/24 15:37	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	80		70 - 130	01/02/24 15:53	01/03/24 15:37	1
1,4-Difluorobenzene (Surr)	121		70 - 130	01/02/24 15:53	01/03/24 15:37	1

Lab Sample ID: LCS 880-70068/1-A

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07900		mg/Kg		79	70 - 130
Toluene	0.100	0.08123		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08592		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1718		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08514		mg/Kg		85	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: LCS 880-70068/1-A

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70068

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: LCSD 880-70068/2-A

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07740		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07349		mg/Kg		73	70 - 130	10	35
Ethylbenzene	0.100	0.08234		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.08347		mg/Kg		83	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 890-5858-A-1-C MS

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.100	0.06298	F1	mg/Kg		63	70 - 130
Toluene	<0.00199	U F1	0.100	0.05832	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.04442	F1	mg/Kg		44	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.08838	F1	mg/Kg		44	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05051	F1	mg/Kg		50	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-5858-A-1-D MSD

Matrix: Solid

Analysis Batch: 70122

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.07766		mg/Kg		77	70 - 130	21	35
Toluene	<0.00199	U F1	0.101	0.07217		mg/Kg		72	70 - 130	21	35
Ethylbenzene	<0.00199	U F1 F2	0.101	0.06430	F1 F2	mg/Kg		64	70 - 130	37	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1212	F1	mg/Kg		60	70 - 130	31	35
o-Xylene	<0.00199	U F1	0.101	0.05769	F1	mg/Kg		57	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-70027/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 70003						Prep Batch: 70027			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/02/24 09:44	01/02/24 19:32	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/02/24 09:44	01/02/24 19:32	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/02/24 09:44	01/02/24 19:32	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	95		70 - 130			01/02/24 09:44	01/02/24 19:32	1	
o-Terphenyl	113		70 - 130			01/02/24 09:44	01/02/24 19:32	1	

Lab Sample ID: LCS 880-70027/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 70003						Prep Batch: 70027			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	1060		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	935.5		mg/Kg		94	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	120		70 - 130						

Lab Sample ID: LCSD 880-70027/3-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 70003						Prep Batch: 70027				
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1090		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)		1000	974.9		mg/Kg		97	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane	105		70 - 130							
o-Terphenyl	126		70 - 130							

Lab Sample ID: 890-5861-A-1-B MS						Client Sample ID: Matrix Spike				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 70003						Prep Batch: 70027				
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	992	1312		mg/Kg		128	70 - 130	
Diesel Range Organics (Over C10-C28)	681	F1	992	1359	F1	mg/Kg		68	70 - 130	

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: 890-5861-A-1-B MS
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70027

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 890-5861-A-1-C MSD
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70027

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	992	1272		mg/Kg		124	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	681	F1	992	1220	F1	mg/Kg		54	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: MB 880-70028/1-A
Matrix: Solid
Analysis Batch: 70087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70028

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 07:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 07:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/02/24 09:47	01/03/24 07:55	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	94		70 - 130	01/02/24 09:47	01/03/24 07:55	1
o-Terphenyl	109		70 - 130	01/02/24 09:47	01/03/24 07:55	1

Lab Sample ID: LCS 880-70028/2-A
Matrix: Solid
Analysis Batch: 70087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	844.2		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	918.5		mg/Kg		92	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	118		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-70028/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 70087				Prep Batch: 70028							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	831.8		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	926.4		mg/Kg		93	70 - 130	1	20
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	120		70 - 130								

Lab Sample ID: 890-5856-1 MS				Client Sample ID: FS 06							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 70087				Prep Batch: 70028							
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	1000	1317		mg/Kg		127	70 - 130		
Diesel Range Organics (Over C10-C28)	606	F1	1000	1327		mg/Kg		72	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	117		70 - 130								

Lab Sample ID: 890-5856-1 MSD				Client Sample ID: FS 06							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 70087				Prep Batch: 70028							
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	1000	1234		mg/Kg		119	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	606	F1	1000	1126	F1	mg/Kg		52	70 - 130	16	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	100		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70009/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70036											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			01/02/24 20:26	1			

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-70009/2-A Matrix: Solid Analysis Batch: 70036										Client Sample ID: Lab Control Sample Prep Type: Soluble			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride			250	234.0		mg/Kg		94	90 - 110				

Lab Sample ID: LCSD 880-70009/3-A Matrix: Solid Analysis Batch: 70036										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	228.9		mg/Kg		92	90 - 110	2	20		

Lab Sample ID: 890-5856-1 MS Matrix: Solid Analysis Batch: 70036										Client Sample ID: FS 06 Prep Type: Soluble			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	164		250	418.1		mg/Kg		102	90 - 110				

Lab Sample ID: 890-5856-1 MSD Matrix: Solid Analysis Batch: 70036										Client Sample ID: FS 06 Prep Type: Soluble			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	164		250	411.2		mg/Kg		99	90 - 110	2	20		

Lab Sample ID: 890-5856-11 MS Matrix: Solid Analysis Batch: 70036										Client Sample ID: FS 16 Prep Type: Soluble			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	75.0		248	319.9		mg/Kg		99	90 - 110				

Lab Sample ID: 890-5856-11 MSD Matrix: Solid Analysis Batch: 70036										Client Sample ID: FS 16 Prep Type: Soluble			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	75.0		248	318.8		mg/Kg		99	90 - 110	0	20		

Lab Sample ID: MB 880-70010/1-A Matrix: Solid Analysis Batch: 70037										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			01/02/24 23:26	1				

Lab Sample ID: LCS 880-70010/2-A Matrix: Solid Analysis Batch: 70037										Client Sample ID: Lab Control Sample Prep Type: Soluble			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride			250	241.8		mg/Kg		97	90 - 110				

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-70010/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70037											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.8		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-5856-21 MS				Client Sample ID: SW 07							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70037											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	179		248	439.9		mg/Kg		105	90 - 110		

Lab Sample ID: 890-5856-21 MSD				Client Sample ID: SW 07							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70037											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	179		248	432.6		mg/Kg		102	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

GC VOA

Prep Batch: 69922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69922/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Total/NA	Solid	8021B	70058
MB 880-69922/5-A	Method Blank	Total/NA	Solid	8021B	69922
MB 880-70058/5-A	Method Blank	Total/NA	Solid	8021B	70058
LCS 880-70058/1-A	Lab Control Sample	Total/NA	Solid	8021B	70058
LCSD 880-70058/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70058
890-5861-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	70058
890-5861-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70058

Prep Batch: 70055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	5035	
890-5856-2	FS 07	Total/NA	Solid	5035	
890-5856-3	FS 08	Total/NA	Solid	5035	
890-5856-4	FS 09	Total/NA	Solid	5035	
890-5856-5	FS 10	Total/NA	Solid	5035	
890-5856-6	FS 11	Total/NA	Solid	5035	
890-5856-7	FS 12	Total/NA	Solid	5035	
890-5856-8	FS 13	Total/NA	Solid	5035	
890-5856-9	FS 14	Total/NA	Solid	5035	
890-5856-10	FS 15	Total/NA	Solid	5035	
890-5856-11	FS 16	Total/NA	Solid	5035	
890-5856-12	FS 17	Total/NA	Solid	5035	
890-5856-13	FS 18	Total/NA	Solid	5035	
890-5856-14	FS 19	Total/NA	Solid	5035	
890-5856-15	FS 20	Total/NA	Solid	5035	
890-5856-16	SW 02	Total/NA	Solid	5035	
890-5856-17	SW 03	Total/NA	Solid	5035	
890-5856-18	SW 04	Total/NA	Solid	5035	
890-5856-19	SW 05	Total/NA	Solid	5035	
890-5856-20	SW 06	Total/NA	Solid	5035	
MB 880-70055/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70055/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70055/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5856-1 MS	FS 06	Total/NA	Solid	5035	
890-5856-1 MSD	FS 06	Total/NA	Solid	5035	

Prep Batch: 70058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Total/NA	Solid	5035	
MB 880-70058/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70058/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70058/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5861-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5861-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

GC VOA

Prep Batch: 70068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-22	SW 08	Total/NA	Solid	5035	
890-5856-23	SW 09	Total/NA	Solid	5035	
MB 880-70068/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70068/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70068/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5858-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5858-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 70094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	8021B	70055
890-5856-2	FS 07	Total/NA	Solid	8021B	70055
890-5856-3	FS 08	Total/NA	Solid	8021B	70055
890-5856-4	FS 09	Total/NA	Solid	8021B	70055
890-5856-5	FS 10	Total/NA	Solid	8021B	70055
890-5856-6	FS 11	Total/NA	Solid	8021B	70055
890-5856-7	FS 12	Total/NA	Solid	8021B	70055
890-5856-8	FS 13	Total/NA	Solid	8021B	70055
890-5856-9	FS 14	Total/NA	Solid	8021B	70055
890-5856-10	FS 15	Total/NA	Solid	8021B	70055
890-5856-11	FS 16	Total/NA	Solid	8021B	70055
890-5856-12	FS 17	Total/NA	Solid	8021B	70055
890-5856-13	FS 18	Total/NA	Solid	8021B	70055
890-5856-14	FS 19	Total/NA	Solid	8021B	70055
890-5856-15	FS 20	Total/NA	Solid	8021B	70055
890-5856-16	SW 02	Total/NA	Solid	8021B	70055
890-5856-17	SW 03	Total/NA	Solid	8021B	70055
890-5856-18	SW 04	Total/NA	Solid	8021B	70055
890-5856-19	SW 05	Total/NA	Solid	8021B	70055
890-5856-20	SW 06	Total/NA	Solid	8021B	70055
MB 880-70055/5-A	Method Blank	Total/NA	Solid	8021B	70055
LCS 880-70055/1-A	Lab Control Sample	Total/NA	Solid	8021B	70055
LCSD 880-70055/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70055
890-5856-1 MS	FS 06	Total/NA	Solid	8021B	70055
890-5856-1 MSD	FS 06	Total/NA	Solid	8021B	70055

Analysis Batch: 70117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	Total BTEX	
890-5856-2	FS 07	Total/NA	Solid	Total BTEX	
890-5856-3	FS 08	Total/NA	Solid	Total BTEX	
890-5856-4	FS 09	Total/NA	Solid	Total BTEX	
890-5856-5	FS 10	Total/NA	Solid	Total BTEX	
890-5856-6	FS 11	Total/NA	Solid	Total BTEX	
890-5856-7	FS 12	Total/NA	Solid	Total BTEX	
890-5856-8	FS 13	Total/NA	Solid	Total BTEX	
890-5856-9	FS 14	Total/NA	Solid	Total BTEX	
890-5856-10	FS 15	Total/NA	Solid	Total BTEX	
890-5856-11	FS 16	Total/NA	Solid	Total BTEX	
890-5856-12	FS 17	Total/NA	Solid	Total BTEX	
890-5856-13	FS 18	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

GC VOA (Continued)

Analysis Batch: 70117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-14	FS 19	Total/NA	Solid	Total BTEX	
890-5856-15	FS 20	Total/NA	Solid	Total BTEX	
890-5856-16	SW 02	Total/NA	Solid	Total BTEX	
890-5856-17	SW 03	Total/NA	Solid	Total BTEX	
890-5856-18	SW 04	Total/NA	Solid	Total BTEX	
890-5856-19	SW 05	Total/NA	Solid	Total BTEX	
890-5856-20	SW 06	Total/NA	Solid	Total BTEX	
890-5856-21	SW 07	Total/NA	Solid	Total BTEX	
890-5856-22	SW 08	Total/NA	Solid	Total BTEX	
890-5856-23	SW 09	Total/NA	Solid	Total BTEX	

Analysis Batch: 70122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-22	SW 08	Total/NA	Solid	8021B	70068
890-5856-23	SW 09	Total/NA	Solid	8021B	70068
MB 880-70068/5-A	Method Blank	Total/NA	Solid	8021B	70068
LCS 880-70068/1-A	Lab Control Sample	Total/NA	Solid	8021B	70068
LCSD 880-70068/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70068
890-5858-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	70068
890-5858-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70068

GC Semi VOA

Analysis Batch: 70003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Total/NA	Solid	8015B NM	70027
890-5856-22	SW 08	Total/NA	Solid	8015B NM	70027
890-5856-23	SW 09	Total/NA	Solid	8015B NM	70027
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015B NM	70027
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70027
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70027
890-5861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	70027
890-5861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70027

Prep Batch: 70027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Total/NA	Solid	8015NM Prep	
890-5856-22	SW 08	Total/NA	Solid	8015NM Prep	
890-5856-23	SW 09	Total/NA	Solid	8015NM Prep	
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 70028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	8015NM Prep	
890-5856-2	FS 07	Total/NA	Solid	8015NM Prep	
890-5856-3	FS 08	Total/NA	Solid	8015NM Prep	
890-5856-4	FS 09	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

GC Semi VOA (Continued)

Prep Batch: 70028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-5	FS 10	Total/NA	Solid	8015NM Prep	
890-5856-6	FS 11	Total/NA	Solid	8015NM Prep	
890-5856-7	FS 12	Total/NA	Solid	8015NM Prep	
890-5856-8	FS 13	Total/NA	Solid	8015NM Prep	
890-5856-9	FS 14	Total/NA	Solid	8015NM Prep	
890-5856-10	FS 15	Total/NA	Solid	8015NM Prep	
890-5856-11	FS 16	Total/NA	Solid	8015NM Prep	
890-5856-12	FS 17	Total/NA	Solid	8015NM Prep	
890-5856-13	FS 18	Total/NA	Solid	8015NM Prep	
890-5856-14	FS 19	Total/NA	Solid	8015NM Prep	
890-5856-15	FS 20	Total/NA	Solid	8015NM Prep	
890-5856-16	SW 02	Total/NA	Solid	8015NM Prep	
890-5856-17	SW 03	Total/NA	Solid	8015NM Prep	
890-5856-18	SW 04	Total/NA	Solid	8015NM Prep	
890-5856-19	SW 05	Total/NA	Solid	8015NM Prep	
890-5856-20	SW 06	Total/NA	Solid	8015NM Prep	
MB 880-70028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5856-1 MS	FS 06	Total/NA	Solid	8015NM Prep	
890-5856-1 MSD	FS 06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	8015B NM	70028
890-5856-2	FS 07	Total/NA	Solid	8015B NM	70028
890-5856-3	FS 08	Total/NA	Solid	8015B NM	70028
890-5856-4	FS 09	Total/NA	Solid	8015B NM	70028
890-5856-5	FS 10	Total/NA	Solid	8015B NM	70028
890-5856-6	FS 11	Total/NA	Solid	8015B NM	70028
890-5856-7	FS 12	Total/NA	Solid	8015B NM	70028
890-5856-8	FS 13	Total/NA	Solid	8015B NM	70028
890-5856-9	FS 14	Total/NA	Solid	8015B NM	70028
890-5856-10	FS 15	Total/NA	Solid	8015B NM	70028
890-5856-11	FS 16	Total/NA	Solid	8015B NM	70028
890-5856-12	FS 17	Total/NA	Solid	8015B NM	70028
890-5856-13	FS 18	Total/NA	Solid	8015B NM	70028
890-5856-14	FS 19	Total/NA	Solid	8015B NM	70028
890-5856-15	FS 20	Total/NA	Solid	8015B NM	70028
890-5856-16	SW 02	Total/NA	Solid	8015B NM	70028
890-5856-17	SW 03	Total/NA	Solid	8015B NM	70028
890-5856-18	SW 04	Total/NA	Solid	8015B NM	70028
890-5856-19	SW 05	Total/NA	Solid	8015B NM	70028
890-5856-20	SW 06	Total/NA	Solid	8015B NM	70028
MB 880-70028/1-A	Method Blank	Total/NA	Solid	8015B NM	70028
LCS 880-70028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70028
LCSD 880-70028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70028
890-5856-1 MS	FS 06	Total/NA	Solid	8015B NM	70028
890-5856-1 MSD	FS 06	Total/NA	Solid	8015B NM	70028

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 70126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Total/NA	Solid	8015 NM	
890-5856-2	FS 07	Total/NA	Solid	8015 NM	
890-5856-3	FS 08	Total/NA	Solid	8015 NM	
890-5856-4	FS 09	Total/NA	Solid	8015 NM	
890-5856-5	FS 10	Total/NA	Solid	8015 NM	
890-5856-6	FS 11	Total/NA	Solid	8015 NM	
890-5856-7	FS 12	Total/NA	Solid	8015 NM	
890-5856-8	FS 13	Total/NA	Solid	8015 NM	
890-5856-9	FS 14	Total/NA	Solid	8015 NM	
890-5856-10	FS 15	Total/NA	Solid	8015 NM	
890-5856-11	FS 16	Total/NA	Solid	8015 NM	
890-5856-12	FS 17	Total/NA	Solid	8015 NM	
890-5856-13	FS 18	Total/NA	Solid	8015 NM	
890-5856-14	FS 19	Total/NA	Solid	8015 NM	
890-5856-15	FS 20	Total/NA	Solid	8015 NM	
890-5856-16	SW 02	Total/NA	Solid	8015 NM	
890-5856-17	SW 03	Total/NA	Solid	8015 NM	
890-5856-18	SW 04	Total/NA	Solid	8015 NM	
890-5856-19	SW 05	Total/NA	Solid	8015 NM	
890-5856-20	SW 06	Total/NA	Solid	8015 NM	
890-5856-21	SW 07	Total/NA	Solid	8015 NM	
890-5856-22	SW 08	Total/NA	Solid	8015 NM	
890-5856-23	SW 09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Soluble	Solid	DI Leach	
890-5856-2	FS 07	Soluble	Solid	DI Leach	
890-5856-3	FS 08	Soluble	Solid	DI Leach	
890-5856-4	FS 09	Soluble	Solid	DI Leach	
890-5856-5	FS 10	Soluble	Solid	DI Leach	
890-5856-6	FS 11	Soluble	Solid	DI Leach	
890-5856-7	FS 12	Soluble	Solid	DI Leach	
890-5856-8	FS 13	Soluble	Solid	DI Leach	
890-5856-9	FS 14	Soluble	Solid	DI Leach	
890-5856-10	FS 15	Soluble	Solid	DI Leach	
890-5856-11	FS 16	Soluble	Solid	DI Leach	
890-5856-12	FS 17	Soluble	Solid	DI Leach	
890-5856-13	FS 18	Soluble	Solid	DI Leach	
890-5856-14	FS 19	Soluble	Solid	DI Leach	
890-5856-15	FS 20	Soluble	Solid	DI Leach	
890-5856-16	SW 02	Soluble	Solid	DI Leach	
890-5856-17	SW 03	Soluble	Solid	DI Leach	
890-5856-18	SW 04	Soluble	Solid	DI Leach	
890-5856-19	SW 05	Soluble	Solid	DI Leach	
890-5856-20	SW 06	Soluble	Solid	DI Leach	
MB 880-70009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

HPLC/IC (Continued)

Leach Batch: 70009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1 MS	FS 06	Soluble	Solid	DI Leach	
890-5856-1 MSD	FS 06	Soluble	Solid	DI Leach	
890-5856-11 MS	FS 16	Soluble	Solid	DI Leach	
890-5856-11 MSD	FS 16	Soluble	Solid	DI Leach	

Leach Batch: 70010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Soluble	Solid	DI Leach	
890-5856-22	SW 08	Soluble	Solid	DI Leach	
890-5856-23	SW 09	Soluble	Solid	DI Leach	
MB 880-70010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5856-21 MS	SW 07	Soluble	Solid	DI Leach	
890-5856-21 MSD	SW 07	Soluble	Solid	DI Leach	

Analysis Batch: 70036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-1	FS 06	Soluble	Solid	300.0	70009
890-5856-2	FS 07	Soluble	Solid	300.0	70009
890-5856-3	FS 08	Soluble	Solid	300.0	70009
890-5856-4	FS 09	Soluble	Solid	300.0	70009
890-5856-5	FS 10	Soluble	Solid	300.0	70009
890-5856-6	FS 11	Soluble	Solid	300.0	70009
890-5856-7	FS 12	Soluble	Solid	300.0	70009
890-5856-8	FS 13	Soluble	Solid	300.0	70009
890-5856-9	FS 14	Soluble	Solid	300.0	70009
890-5856-10	FS 15	Soluble	Solid	300.0	70009
890-5856-11	FS 16	Soluble	Solid	300.0	70009
890-5856-12	FS 17	Soluble	Solid	300.0	70009
890-5856-13	FS 18	Soluble	Solid	300.0	70009
890-5856-14	FS 19	Soluble	Solid	300.0	70009
890-5856-15	FS 20	Soluble	Solid	300.0	70009
890-5856-16	SW 02	Soluble	Solid	300.0	70009
890-5856-17	SW 03	Soluble	Solid	300.0	70009
890-5856-18	SW 04	Soluble	Solid	300.0	70009
890-5856-19	SW 05	Soluble	Solid	300.0	70009
890-5856-20	SW 06	Soluble	Solid	300.0	70009
MB 880-70009/1-A	Method Blank	Soluble	Solid	300.0	70009
LCS 880-70009/2-A	Lab Control Sample	Soluble	Solid	300.0	70009
LCSD 880-70009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70009
890-5856-1 MS	FS 06	Soluble	Solid	300.0	70009
890-5856-1 MSD	FS 06	Soluble	Solid	300.0	70009
890-5856-11 MS	FS 16	Soluble	Solid	300.0	70009
890-5856-11 MSD	FS 16	Soluble	Solid	300.0	70009

Analysis Batch: 70037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5856-21	SW 07	Soluble	Solid	300.0	70010
890-5856-22	SW 08	Soluble	Solid	300.0	70010
890-5856-23	SW 09	Soluble	Solid	300.0	70010

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 BATTERY

Job ID: 890-5856-1
SDG: 03C1558215

HPLC/IC (Continued)

Analysis Batch: 70037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70010/1-A	Method Blank	Soluble	Solid	300.0	70010
LCS 880-70010/2-A	Lab Control Sample	Soluble	Solid	300.0	70010
LCSD 880-70010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70010
890-5856-21 MS	SW 07	Soluble	Solid	300.0	70010
890-5856-21 MSD	SW 07	Soluble	Solid	300.0	70010

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Lab Chronicle

Client: Ensolum
1 Røj tđ ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: FS 06

Lab Sample ID: 890-5856-1

Date Collected: 12/28/23 10:55

Matrix: Solid

Date Received: 12/28/23 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.98 g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 66:G8	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 66:G8	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 60:G6	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.05 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 60:G6	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.06 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 30:p6	CH	EEA MID

Client Sample ID: FS 07

Lab Sample ID: 890-5856-2

Date Collected: 12/28/23 11:00

Matrix: Solid

Date Received: 12/28/23 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.94 g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 63:3p	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 63:3p	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 66:GJ	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.90 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 66:GJ	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.05 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 30:5U	CH	EEA MID

Client Sample ID: FS 08

Lab Sample ID: 890-5856-3

Date Collected: 12/28/23 11:05

Matrix: Solid

Date Received: 12/28/23 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			5.0Gg	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 63:59	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 63:59	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 66:59	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.04 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 66:59	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			p.95 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:03	CH	EEA MID

Client Sample ID: FS 09

Lab Sample ID: 890-5856-4

Date Collected: 12/28/23 11:10

Matrix: Solid

Date Received: 12/28/23 15:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			5.0p g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6G69	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6G69	/ M	EEA MID

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Lab Chronicle

Client: Ensolum
1 Røj tđ ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 00C6558365

Client Sample ID: FS 09

Date Collected: 12/28/23 11:10

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	Bnalysis	8065 NM		6			U0634	06đ3đp 63:36	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.0Gg	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 63:36	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.05 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:0U	CH	EEA MID

Client Sample ID: FS 10

Date Collected: 12/28/23 11:25

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.9Ug	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6Gp0	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6Gp0	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 63:pG	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.03 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 63:pG	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.0Gg	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:63	CH	EEA MID

Client Sample ID: FS 11

Date Collected: 12/28/23 12:00

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.95 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6p:00	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6p:00	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6G05	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.06 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6G05	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			p.98 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:3U	CH	EEA MID

Client Sample ID: FS 12

Date Collected: 12/28/23 12:15

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.99 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6U:60	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6U:60	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6G34	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.9p g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6G34	/ M	EEA MID

EuRfins CaRsbad

Lab Chronicle

Client: Ensolum
1 Røj tđ ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: FS 12

Date Collected: 12/28/23 12:15

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ oluble	Seaj h	DI Seaj h			p.95 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:Gđ	CH	EEA MID

Client Sample ID: FS 13

Date Collected: 12/28/23 09:40

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50Gđ			5.06 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6U:Gđ	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6U:Gđ	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6Gp8	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.98 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6Gp8	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.03 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:Gđ	CH	EEA MID

Client Sample ID: FS 14

Date Collected: 12/28/23 09:45

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50Gđ			5.00 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 6U:56	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 6U:56	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6p:60	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.90 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6p:60	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			p.98 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:pG	CH	EEA MID

Client Sample ID: FS 15

Date Collected: 12/28/23 09:50

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50Gđ			5.05 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 68:66	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 68:66	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6p:Gđ	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.90 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6p:Gđ	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.03 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 36:p8	CH	EEA MID

EuRfins CaRsbad

Lab Chronicle

Client: Ensolum
1 Røj tē ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: FS 16

Date Collected: 12/28/23 13:00

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			p.98 g	5 mS	U0055	06d3d3p 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06dG3p 30:03	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 30:03	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 65:6U	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			60.0Ug	60 mS	U0038	06d3d3p 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06dG3p 65:6U	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.05 g	50 mS	U0009	06d3d3p 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06d3d3p 36:5G	CH	EEA MID

Client Sample ID: FS 17

Date Collected: 12/28/23 13:05

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			5.03 g	5 mS	U0055	06d3d3p 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06dG3p 30:33	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 30:33	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 65:G9	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			60.05 g	60 mS	U0038	06d3d3p 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06dG3p 65:G9	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.03 g	50 mS	U0009	06d3d3p 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06d3d3p 33:08	CH	EEA MID

Client Sample ID: FS 18

Date Collected: 12/28/23 13:10

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			5.00 g	5 mS	U0055	06d3d3p 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06dG3p 30:pG	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 30:pG	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 64:03	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			60.06 g	60 mS	U0038	06d3d3p 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06dG3p 64:03	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.03 g	50 mS	U0009	06d3d3p 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06d3d3p 33:6p	CH	EEA MID

Client Sample ID: FS 19

Date Collected: 12/28/23 13:15

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			5.0Gg	5 mS	U0055	06d3d3p 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06dG3p 36:0G	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 36:0G	/ M	EEA MID

EuRfins CaRsbad

Lab Chronicle

Client: Ensolum
1 Røj tđ ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: FS 19

Date Collected: 12/28/23 13:15

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	Bnalysis	8065 NM		6			U0634	06đ3đp 64:3p	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.9p g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 64:3p	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.06 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:39	CH	EEA MID

Client Sample ID: FS 20

Date Collected: 12/28/23 13:30

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.94 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 36:3p	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 36:3p	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 64:pU	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.98 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 64:pU	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			p.95 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:Gp	CH	EEA MID

Client Sample ID: SW 02

Date Collected: 12/28/23 10:40

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.95 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 36:p5	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 36:p5	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6U:60	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.9Gg	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6U:60	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.0Gg	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:Gđ	CH	EEA MID

Client Sample ID: SW 03

Date Collected: 12/28/23 10:45

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.99 g	5 mS	U0055	06đ3đp 6p:GU	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 33:05	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 33:05	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6U:Gđ	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			9.90 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6U:Gđ	/ M	EEA MID

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Lab Chronicle

Client: Ensolum
1 Røj tđ ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: SW 03

Date Collected: 12/28/23 10:45

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ oluble	Seaj h	DI Seaj h			p.98 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:p5	CH	EEA MID

Client Sample ID: SW 04

Date Collected: 12/28/23 11:15

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			5.03 g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 33:34	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 33:34	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 6U:55	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.00 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 6U:55	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			p.99 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:50	CH	EEA MID

Client Sample ID: SW 05

Date Collected: 12/28/23 11:20

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			5.05 g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 33:p4	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 33:p4	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 68:6U	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.03 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 68:6U	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.06 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 33:55	CH	EEA MID

Client Sample ID: SW 06

Date Collected: 12/28/23 09:55

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 R2	50G5			p.98 g	5 mS	U0055	06đ3đp 6p:GJ	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U009p	06đGđp 3G0U	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06đGđp 3G0U	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06đGđp 68:G9	/ M	EEA MID
AotaldNB	1 R2	8065NM 1 R2			60.06 g	60 mS	U0038	06đ3đp 09:pU	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U008U	06đGđp 68:G9	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5 g	50 mS	U0009	06đ3đp 08:6p	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00G4	06đ3đp 3G00	CH	EEA MID

EuRfins CaRsbad

Lab Chronicle

Client: Ensolum
1 Røj tē ite: 1 SL 1 C 6U 7BAAETR

Job ID: 890-5854-6
/ DY: 0QC6558365

Client Sample ID: SW 07

Date Collected: 12/28/23 10:00

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			p.9Ug	5 mS	U0058	06d3d3p 6p:5G	MNT	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U006G	06dG3p 04:03	MNT	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 04:03	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 0GQU	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			9.93 g	60 mS	U003U	06d3d3p 09:pp	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U000G	06dG3p 0GQU	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.0p g	50 mS	U0060	06d3d3p 08:6U	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00GU	06d3d3p 3Gp3	CH	EEA MID

Client Sample ID: SW 08

Date Collected: 12/28/23 13:20

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			p.99 g	5 mS	U0048	06d3d3p 65:5G	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U0633	06dG3p 69:G5	/ M	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 69:G5	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 0G59	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			9.90 g	60 mS	U003U	06d3d3p 09:pp	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U000G	06dG3p 0G59	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5 g	50 mS	U0060	06d3d3p 08:6U	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00GU	06d3d3p 3G5U	CH	EEA MID

Client Sample ID: SW 09

Date Collected: 12/28/23 13:25

Date Received: 12/28/23 15:51

Lab Sample ID: 890-5856-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotaldNB	1 Rē2	50G5			5.05 g	5 mS	U0048	06d3d3p 65:5G	ES	EEA MID
AotaldNB	Bnalysis	80367		6	5 mS	5 mS	U0633	06dG3p 30:03	/ M	EEA MID
AotaldNB	Bnalysis	Aotal 7 AEX		6			U066U	06dG3p 30:03	/ M	EEA MID
AotaldNB	Bnalysis	8065 NM		6			U0634	06dG3p 0p:30	/ M	EEA MID
AotaldNB	1 Rē2	8065NM 1 Rē2			60.05 g	60 mS	U003U	06d3d3p 09:pp	AKC	EEA MID
AotaldNB	Bnalysis	80657 NM		6	6 uS	6 uS	U000G	06dG3p 0p:30	/ M	EEA MID
/ oluble	Seaj h	DI Seaj h			5.06 g	50 mS	U0060	06d3d3p 08:6U	/ B	EEA MID
/ oluble	Bnalysis	G00.0		6	50 mS	50 mS	U00GU	06dG3p 00:03	CH	EEA MID

Laboratory References:
EEA MID = EuRfins Midland, 6366 W. FloRda Bve, Midland, AX U9U06, AES (pG3)U0p-5pp0

Accreditation/Certification Summary

Client: Ensolum
1 Pørej tð ite: 1 SL 1 C 6U7BAAETR

Job ID: 890-5854-6
/ DY: 0GC6558365

Laboratory: Eurofins Midland

L nless ot2ePh ise notewd, ll , n, lates yoPt2is l, boP, toPa h ePè j of ePèw unwePe, j 2 , j j Pèwit, tiong eRtyj , tion beloh v

Authority	Program	Identification Number	Expiration Date
Ae. , s	x ESB1	A60NU0NN00-3G-34	04-G0-3N
A2e yolloh ing , n, lates , Pè inj luwewin t2is PèpoRdbut t2e l, boP, toPa is not j eRtyjewba t2e gof ePhing , ut2oRtav A2is list m, a inj luwe , n, lates yoPh2ij 2 t2e , genj a woes not oyePj eRtyj , tion v			
Bn, lasis Met2ow	1 Pèp Met2ow	M, tR.	Bn, late
8065 x M		/ oliw	Aot, l A1 H
Aot, l 7 AEX		/ oliw	Aot, l 7 AEX

Method Summary

1 0 en t eEoGu
2 Rri j rmlri : 2 / L 21 6U7BAAt TR

Job ID: 890-5854-6
mDS: OG1 6558365

Method	Method Description	Protocol	Laboratory
80367	VoGrlC ORgaelj 1 ou posedE(S1)	mY 8VM	t t A MID
AoraC7 At X	AoraC7 At X 1 aCsQrlae	AB/ mO2	t t A MID
8065 NM	Dli Ei CT aegi ORgaelj E(DTO) (S1)	mY 8VM	t t A MID
80657 NM	Dli Ei CT aegi ORgaelj E(DTO) (S1)	mY 8VM	t t A MID
G00.0	BeloeE, loe 1 hRbu arogPaphy	t 2B	t t A MID
50G5	1 0E d myEri u 2sRgi aed ARap	mY 8VM	t t A MID
8065NM 2R p	Mlj Rbi xrfaj rloe	mY 8VM	t t A MID
DI / i aj h	Di loelzi d Y ani P/ i aj hleg 2Rbj i dsR	BmAM	t t A MID

Protocol References:

BmAM = BmAM leri PearloeaC

t 2B = L mt evlRbeu i eraC2Rri j rloe Bgi ej y

mY 8VM = "Ai EnMi rhodEFoPt vaGarleg moQl Y aEri , 2hyBj aCl hi u lj aQMi rhodE", AhIRt t dlrlae, Novi u bi P6984 Bed IrELpdari E

AB/ mO2 = Ai EBu i Rj a / aboRaroR E mraedaRl Opi Parleg 2Rbj i dsR

Laboratory References:

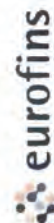
t t A MID = t sRfleEMld@aed, 6366 Y . FGRda Bvi , Mid@aed, AX U9U06, At / (V33)U0W5VW0

Sample Summary

Client: Ensolum
2 Forej tcl ite: 2/ L 2C 6U7BAAETR

Job ID: 890-5854-6
1 DS: 0CC6558365

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5854-6	Y1 04	1 oliF	63Δ8ΔG60:55	63Δ8ΔG65:56	d'
890-5854-3	Y1 0U	1 oliF	63Δ8ΔG66:00	63Δ8ΔG65:56	d'
890-5854-G	Y1 08	1 oliF	63Δ8ΔG66:05	63Δ8ΔG65:56	d'
890-5854-d	Y1 09	1 oliF	63Δ8ΔG66:60	63Δ8ΔG65:56	d'
890-5854-5	Y1 60	1 oliF	63Δ8ΔG66:35	63Δ8ΔG65:56	d'
890-5854-4	Y1 66	1 oliF	63Δ8ΔG63:00	63Δ8ΔG65:56	d'
890-5854-U	Y1 63	1 oliF	63Δ8ΔG63:65	63Δ8ΔG65:56	G
890-5854-8	Y1 6G	1 oliF	63Δ8ΔG09:d0	63Δ8ΔG65:56	G
890-5854-9	Y1 6d	1 oliF	63Δ8ΔG09:d5	63Δ8ΔG65:56	d'
890-5854-60	Y1 65	1 oliF	63Δ8ΔG09:50	63Δ8ΔG65:56	d'
890-5854-66	Y1 64	1 oliF	63Δ8ΔG6G00	63Δ8ΔG65:56	d'
890-5854-63	Y1 6U	1 oliF	63Δ8ΔG6G05	63Δ8ΔG65:56	G
890-5854-6G	Y1 68	1 oliF	63Δ8ΔG6G60	63Δ8ΔG65:56	G
890-5854-6d	Y1 69	1 oliF	63Δ8ΔG6G65	63Δ8ΔG65:56	G
890-5854-65	Y1 30	1 oliF	63Δ8ΔG6GΔ	63Δ8ΔG65:56	G
890-5854-64	1W 03	1 oliF	63Δ8ΔG60:d0	63Δ8ΔG65:56	0-d'
890-5854-6U	1W 0G	1 oliF	63Δ8ΔG60:d5	63Δ8ΔG65:56	0-d'
890-5854-68	1W 0d	1 oliF	63Δ8ΔG66:65	63Δ8ΔG65:56	0-d'
890-5854-69	1W 05	1 oliF	63Δ8ΔG66:30	63Δ8ΔG65:56	0-d'
890-5854-30	1W 04	1 oliF	63Δ8ΔG09:55	63Δ8ΔG65:56	0-d'
890-5854-36	1W 0U	1 oliF	63Δ8ΔG60:00	63Δ8ΔG65:56	0-d'
890-5854-33	1W 08	1 oliF	63Δ8ΔG6G30	63Δ8ΔG65:56	0-G
890-5854-3G	1W 09	1 oliF	63Δ8ΔG6G35	63Δ8ΔG65:56	0-G



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-125
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-31



890-5856 Chain of Custody

Page 1 of 3

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greent St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(337) 257-8307	Email:	Garrett.Green@xconnmobil.com

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

Project Name:	DLU DC 17 Battery	Turn Around	
Project Number:	03C1558215	☒ Routine ☐ Rush	
Project Location:	32.12406, -103.59609	Due Date:	5 days
Sampler's Name:	Mariah O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No		Thermometer ID:	TM007
Cooler Custody Seals:	Yes No		Correction Factor:	-0.2
Sample Custody Seals:	Yes No		Temperature Reading:	4.2
Total Containers:			Corrected Temperature:	4.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
FS06	S	12/28/23	10:55	4'	C	1	Chlorides	
FS07			11:00	4'			TPH	
FS08			11:05	4'			BTEX	
FS09			11:10	4'				
FS10			11:25	4'				
FS11			12:00	4'				
FS12			12:15	3'				
FS13			9:40	3'				
FS14			9:45	4'				
FS15			9:50	4'				

Sample Comments	Preservative Codes
Incident #:	None: NO DI Water: H ₂ O
NAPP2233951514	Cool: Cool MeOH: Me
Cost Center:	HCL: HC HNO ₃ : HN
1081001001	H ₂ SO ₄ : H ₂ NaOH: Na
Tacoma Morrissey:	H ₃ PO ₄ : HP
tmorrissey@ensolum.com	NaHSO ₄ : NABIS
	Na ₂ S ₂ O ₃ : NaSO ₃
	Zn Acetate+NaOH: Zn
	NaOH+Ascorbic Acid: SAPC

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M. O'Dell	B. Smith	12/28 1551			

Revised Date: 09/25/2020 Rev. 2000.2

Chain of Custody

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



Environment Testing
Xenco

Work Order No:

www.xenco.com Page 2 of 3

Project Manager: **Tacoma Morrissey** Bill to: (if different) **Garrett Green**
Company Name: **Ensolum, LLC** Company Name: **XTO Energy**
Address: **3122 National Parks Hwy** Address: **3104 E. Greend St**
City, State ZIP: **Carlsbad, NM 88220** City, State ZIP: **Carlsbad, NM 88220**
Phone: **(337) 257-8307** Email: **Garrett.Green@ExxonMobil.com**

Project Name: **PLU PC 17 Battery** Turn Around: ☒ Routine ☐ Rush
Project Number: **0361558215** Due Date: **5 days**
Project Location: **32.12400, 103.89009** TAT starts the day received by the lab, if received by 4:30pm
Sampler's Name: **Mariah O'Dell**
PO #:

SAMPLE RECEIPT
Samples Received Intact: ☒ Yes ☐ No Thermometer ID: **110007**
Cooler Custody Seals: ☒ Yes ☐ No Correction Factor: **-0.2**
Sample Custody Seals: ☒ Yes ☐ No Temperature Reading: **4.2**
Total Containers: **4.0**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
FS10	S	12/28/23	13:00	4'	C	1	Chlorides	
FS17			13:05	3'			TPH	
FS18			13:10	3'			BTEX	
FS19			13:15	3'				
FS20			13:30	3'				
SW02			10:40	0-4'				
SW03			10:45	0-4'				
SW04			11:15	0-4'				
SW05			11:20	0-4'				
SW06			01:55	0-4'				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Mariah O'Dell</i>	<i>Garrett Green</i>	12/28/23 15:51			

Revised Date: 08/25/2020 Rev. 2020.2



Chain of Custody

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

Environment Testing
Xenco

Work Order No:

Page 3 of 3
www.xenco.com[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5854-6

1SD Number: 0GC6558365

Login Number: 5856
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
2Te hoolerꞑ husto' d seylai, f resentaits intyhtp	2rue	
1ymf le husto' d seylsai, f resentayre intyhtp	2rue	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resenTp	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytionp	2rue	
ꞑ tTe l iel' 1ymf lersꞑ nyme f resen on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime ꞑ(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broꞑen or leyꞑnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	NY	Ae,er to Job Nyrryti. e ,or ' etyilsp
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	NY	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpynd reVueste' q 1)q 1 Ss	2rue	
Contyiners reVuirink ꞑro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z4mm ꞑꞑ<"xp	NY	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5854-6

1SD Number: 0GC6558365

Login Number: 5856
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/02/24 08:23 AM

Question	Answer	Comment
2Te hoolers husto' d seylai, f resents intyhtp	NY	
1ymf le husto' d seylsai, f resents intyhtp	NY	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihp	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resnt	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormyion	2rue	
g tTe l iel' 1ymf lers nyme f resnt on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riye symf le hontyiners yre use' p	2rue	
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	NY	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpnd reVueste' q 1)q 1Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z4mm h6)<"xp	NY	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/8/2024 12:29:37 PM

JOB DESCRIPTION

PLU PC 17 Battery

03C1558215

JOB NUMBER

890-6029-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

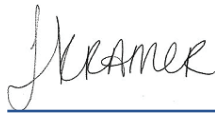
Eurofins Carlsbad

Job Notes

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

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

Authorization



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2/8/2024 12:29:37 PM

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

Client: Ensolum
Project/Site: PLU PC 17 Battery

Laboratory Job ID: 890-6029-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Qualifiers

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Ensolum
Project: PLU PC 17 Battery

Job ID: 890-6029-1

Job ID: 890-6029-1

Eurofins Carlsbad

Job Narrative
890-6029-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/24/2024 4:38 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 3.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH06 (890-6029-1), PH06A (890-6029-2), PH06B (890-6029-3), PH06C (890-6029-4), PH07 (890-6029-5), PH07A (890-6029-6), PH07B (890-6029-7), PH07C (890-6029-8), PH08 (890-6029-9), PH08A (890-6029-10), PH08B (890-6029-11), PH08C (890-6029-12), PH09 (890-6029-13), PH09A (890-6029-14), PH09B (890-6029-15), PH09C (890-6029-16), PH09D (890-6029-17), PH10 (890-6029-18), PH10A (890-6029-19), PH10B (890-6029-20) and PH10C (890-6029-21).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71844 and analytical batch 880-72144 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH07 (890-6029-5), PH07A (890-6029-6), PH07C (890-6029-8), PH09 (890-6029-13), PH09C (890-6029-16) and PH09D (890-6029-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71846 and analytical batch 880-72370 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71846 and analytical batch 880-72370 was outside the control limits.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71846 and analytical batch 880-72370 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH10 (890-6029-18) and PH10B (890-6029-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71751 and analytical batch 880-72446 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71703 and analytical batch 880-72541 was outside the upper control limits.

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Case Narrative

Client: Ensolum
Project: PLU PC 17 Battery

Job ID: 890-6029-1

Job ID: 890-6029-1 (Continued)

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Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH06B (890-6029-3), PH09A (890-6029-14) and PH09C (890-6029-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71670 and analytical batch 880-71747 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71672 and analytical batch 880-71748 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06

Lab Sample ID: 890-6029-1

Date Collected: 01/24/24 09:10

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
Toluene	<0.00199	U F1 F2	0.00199	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
m-Xylene & p-Xylene	<0.00398	U *1 F1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
o-Xylene	<0.00199	U *1 F1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
Xylenes, Total	<0.00398	U *1 F1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 06:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		01 - 321			13/85/84 34:37	18/17/84 17:17	3
3,4-Difluorobenzene (Surr)	02		01 - 321			13/85/84 34:37	18/17/84 17:17	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 06:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/07/24 21:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		01/26/24 15:36	02/07/24 21:05	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/26/24 15:36	02/07/24 21:05	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/26/24 15:36	02/07/24 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-Chlorooctane	333		01 - 321			13/87/84 37:27	18/10/84 83:17	3
o-perylene	335		01 - 321			13/87/84 37:27	18/10/84 83:17	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8	F1	5.05	mg/Kg			01/30/24 20:27	1

Client Sample ID: PH06A

Lab Sample ID: 890-6029-2

Date Collected: 01/24/24 09:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
Xylenes, Total	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 06:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	312		01 - 321			13/85/84 34:37	18/17/84 17:22	3

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06A

Lab Sample ID: 890-6029-2

Date Collected: 01/24/24 09:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Difluorobenzene (Surr)	311		01 - 321	13/85/84 34:37	18/17/84 17:22	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/06/24 06:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/07/24 22:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/07/24 22:10	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/07/24 22:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/07/24 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-Chlorooctane	335		01 - 321			13/87/84 3T:27	18/10/84 88:31	3
o-peryhen6l	382		01 - 321			13/87/84 3T:27	18/10/84 88:31	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.64		4.96	mg/Kg			01/30/24 20:42	1

Client Sample ID: PH06B

Lab Sample ID: 890-6029-3

Date Collected: 01/24/24 09:20

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
Xylenes, Total	<0.00402	U *1	0.00402	mg/Kg		01/29/24 14:16	02/06/24 07:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	337		01 - 321			13/85/84 34:37	18/17/84 10:11	3
3,4-Difluorobenzene (Surr)	337		01 - 321			13/85/84 34:37	18/17/84 10:11	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/06/24 07:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/07/24 22:31	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06B

Lab Sample ID: 890-6029-3

Date Collected: 01/24/24 09:20

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/07/24 22:31	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/07/24 22:31	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/07/24 22:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	380		01 - 321			13/87/84 3T:27	18/10/84 88:23	3	
o-perylene	327	S3+	01 - 321			13/87/84 3T:27	18/10/84 88:23	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	23.3		4.95	mg/Kg			01/30/24 20:47	1	

Client Sample ID: PH06C

Lab Sample ID: 890-6029-4

Date Collected: 01/24/24 09:25

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 07:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	310		01 - 321			13/85/84 34:37	18/17/84 10:80	3	
3,4-Difluorobenzene (Surr)	310		01 - 321			13/85/84 34:37	18/17/84 10:80	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 07:27	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			02/07/24 22:52	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/07/24 22:52	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/07/24 22:52	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/07/24 22:52	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	333		01 - 321			13/87/84 3T:27	18/10/84 88:78	3	
o-perylene	381		01 - 321			13/87/84 3T:27	18/10/84 88:78	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06C

Lab Sample ID: 890-6029-4

Date Collected: 01/24/24 09:25

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	21.8		4.97	mg/Kg			01/30/24 20:52	1	

Client Sample ID: PH07

Lab Sample ID: 890-6029-5

Date Collected: 01/24/24 10:40

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
Toluene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
m-Xylene & p-Xylene	<0.00396	U *1	0.00396	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
Xylenes, Total	<0.00396	U *1	0.00396	mg/Kg		01/29/24 14:16	02/06/24 07:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	73	S3-	01 - 321			13/85/84 34:37	18/17/84 10:74	3	
3,4-Difluorobenzene (Surr)	97		01 - 321			13/85/84 34:37	18/17/84 10:74	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/06/24 07:54	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			02/07/24 23:13	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:13	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:13	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:13	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	339		01 - 321			13/87/84 3T:27	18/10/84 82:32	3	
o-peryhen6l	383		01 - 321			13/87/84 3T:27	18/10/84 82:32	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	13.3		5.00	mg/Kg			01/30/24 20:57	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH07A
Date Collected: 01/24/24 10:45
Date Received: 01/24/24 16:38
Sample Depth: 1

Lab Sample ID: 890-6029-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
Xylenes, Total	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 08:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	70	S3-	01 - 321			13/85/84 34:37	18/17/84 19:83	3	
3,4-Difluorobenzene (Surr)	02		01 - 321			13/85/84 34:37	18/17/84 19:83	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/06/24 08:21	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			02/07/24 23:34	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:34	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:34	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/07/24 23:34	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	337		01 - 321			13/87/84 37:27	18/10/84 82:24	3	
o-peryhen6l	337		01 - 321			13/87/84 37:27	18/10/84 82:24	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.92		4.99	mg/Kg			01/30/24 21:27	1	

Client Sample ID: PH07B
Date Collected: 01/24/24 12:15
Date Received: 01/24/24 16:38
Sample Depth: 2

Lab Sample ID: 890-6029-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
Toluene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
m-Xylene & p-Xylene	<0.00402	U *1	0.00402	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
Xylenes, Total	<0.00402	U *1	0.00402	mg/Kg		01/29/24 14:16	02/06/24 08:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		01 - 321			13/85/84 34:37	18/17/84 19:49	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH07B

Lab Sample ID: 890-6029-7

Date Collected: 01/24/24 12:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Difluorobenzene (Surr)	313		01 - 321	13/85/84 34:37	18/17/84 19:49	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/06/24 08:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/07/24 23:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/07/24 23:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/07/24 23:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/07/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
3-Chlorooctane	319		01 - 321			13/87/84 3T:27	18/10/84 82:TT	3
o-peryhen6l	338		01 - 321			13/87/84 3T:27	18/10/84 82:TT	3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.7		5.02	mg/Kg			01/30/24 21:32	1

Client Sample ID: PH07C

Lab Sample ID: 890-6029-8

Date Collected: 01/24/24 12:20

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
m-Xylene & p-Xylene	<0.00404	U *1	0.00404	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
o-Xylene	<0.00202	U *1	0.00202	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
Xylenes, Total	<0.00404	U *1	0.00404	mg/Kg		01/29/24 14:16	02/06/24 09:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	329	S3+	01 - 321			13/85/84 34:37	18/17/84 15:3T	3
3,4-Difluorobenzene (Surr)	09		01 - 321			13/85/84 34:37	18/17/84 15:3T	3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/06/24 09:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			02/08/24 00:16	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH07C

Lab Sample ID: 890-6029-8

Date Collected: 01/24/24 12:20

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/26/24 15:36	02/08/24 00:16	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/26/24 15:36	02/08/24 00:16	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/26/24 15:36	02/08/24 00:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	335		01 - 321			13/87/84 3T:27	18/19/84 11:37	3	
o-perylene	388		01 - 321			13/87/84 3T:27	18/19/84 11:37	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	140		5.04	mg/Kg			01/30/24 21:37	1	

Client Sample ID: PH08

Lab Sample ID: 890-6029-9

Date Collected: 01/24/24 12:25

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 09:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	314		01 - 321			13/85/84 34:37	18/17/84 15:48	3	
3,4-Difluorobenzene (Surr)	313		01 - 321			13/85/84 34:37	18/17/84 15:48	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 09:42	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg			02/08/24 00:37	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 00:37	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 00:37	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 00:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	382		01 - 321			13/87/84 3T:27	18/19/84 11:20	3	
o-perylene	335		01 - 321			13/87/84 3T:27	18/19/84 11:20	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH08

Lab Sample ID: 890-6029-9

Date Collected: 01/24/24 12:25

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	7.78		5.04	mg/Kg			01/30/24 21:41	1	

Client Sample ID: PH08A

Lab Sample ID: 890-6029-10

Date Collected: 01/24/24 12:30

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 10:08	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	314		01 - 321			13/85/84 34:37	18/17/84 31:19	3	
3,4-Difluorobenzene (Surr)	55		01 - 321			13/85/84 34:37	18/17/84 31:19	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 10:08	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			02/08/24 00:58	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/08/24 00:58	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/08/24 00:58	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/08/24 00:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	319		01 - 321			13/87/84 3T:27	18/19/84 11:79	3	
o-peryhenol	338		01 - 321			13/87/84 3T:27	18/19/84 11:79	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	28.6		5.04	mg/Kg			01/30/24 21:46	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH08B
Date Collected: 01/24/24 12:35
Date Received: 01/24/24 16:38
Sample Depth: 2

Lab Sample ID: 890-6029-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
Xylenes, Total	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 12:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	331		01 - 321			13/85/84 34:37	18/17/84 38:33	3	
3,4-Difluorobenzene (Surr)	99		01 - 321			13/85/84 34:37	18/17/84 38:33	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/06/24 12:11	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			02/08/24 01:42	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 01:42	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 01:42	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 01:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	335		01 - 321			13/87/84 37:27	18/19/84 13:48	3	
o-peryhen6l	335		01 - 321			13/87/84 37:27	18/19/84 13:48	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	151	F1	4.99	mg/Kg			01/30/24 21:51	1	

Client Sample ID: PH08C
Date Collected: 01/24/24 12:40
Date Received: 01/24/24 16:38
Sample Depth: 3

Lab Sample ID: 890-6029-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
m-Xylene & p-Xylene	<0.00401	U *1	0.00401	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
Xylenes, Total	<0.00401	U *1	0.00401	mg/Kg		01/29/24 14:16	02/06/24 12:39	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	310		01 - 321			13/85/84 34:37	18/17/84 38:25	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH08C
Date Collected: 01/24/24 12:40
Date Received: 01/24/24 16:38
Sample Depth: 3

Lab Sample ID: 890-6029-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3,4-Difluorobenzene (Surr)	55		01 - 321			13/85/84 34:37	18/17/84 38:25	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/06/24 12:39	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	62.7		49.7	mg/Kg			02/08/24 02:03	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/08/24 02:03	1	
Diesel Range Organics (Over C10-C28)	62.7		49.7	mg/Kg		01/26/24 15:36	02/08/24 02:03	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/26/24 15:36	02/08/24 02:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	381		01 - 321			13/87/84 3T:27	18/19/84 18:12	3	
o-perylene	380		01 - 321			13/87/84 3T:27	18/19/84 18:12	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	33.5		5.01	mg/Kg			01/31/24 17:00	1	

Client Sample ID: PH09
Date Collected: 01/24/24 13:10
Date Received: 01/24/24 16:38
Sample Depth: 0.5

Lab Sample ID: 890-6029-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 13:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	340	S3+	01 - 321			13/85/84 34:37	18/17/84 32:17	3	
3,4-Difluorobenzene (Surr)	337		01 - 321			13/85/84 34:37	18/17/84 32:17	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 13:06	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			02/08/24 02:24	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09

Lab Sample ID: 890-6029-13

Date Collected: 01/24/24 13:10

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 02:24	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 02:24	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 02:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	387		01 - 321			13/87/84 3T:27	18/19/84 18:84	3	
o-peryhen6l	321		01 - 321			13/87/84 3T:27	18/19/84 18:84	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2220		25.1	mg/Kg			01/31/24 17:52	5	

Client Sample ID: PH09A

Lab Sample ID: 890-6029-14

Date Collected: 01/24/24 13:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
Toluene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
m-Xylene & p-Xylene	<0.00396	U *1	0.00396	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
Xylenes, Total	<0.00396	U *1	0.00396	mg/Kg		01/29/24 14:16	02/06/24 13:34	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	384		01 - 321			13/85/84 34:37	18/17/84 32:24	3	
3,4-Difluorobenzene (Surr)	315		01 - 321			13/85/84 34:37	18/17/84 32:24	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/06/24 13:34	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			02/08/24 02:45	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 02:45	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 02:45	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 02:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	389		01 - 321			13/87/84 3T:27	18/19/84 18:4T	3	
o-peryhen6l	327	S3+	01 - 321			13/87/84 3T:27	18/19/84 18:4T	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09A

Lab Sample ID: 890-6029-14

Date Collected: 01/24/24 13:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1790		25.2	mg/Kg			01/31/24 17:19	5	

Client Sample ID: PH09B

Lab Sample ID: 890-6029-15

Date Collected: 01/24/24 13:25

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 14:01	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	331		01 - 321			13/85/84 34:37	18/17/84 34:13	3	
3,4-Difluorobenzene (Surr)	58		01 - 321			13/85/84 34:37	18/17/84 34:13	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 14:01	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.2	U	50.2	mg/Kg			02/08/24 03:06	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		01/26/24 15:36	02/08/24 03:06	1	
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/26/24 15:36	02/08/24 03:06	1	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/26/24 15:36	02/08/24 03:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	337		01 - 321			13/87/84 37:27	18/19/84 12:17	3	
o-perylene	382		01 - 321			13/87/84 37:27	18/19/84 12:17	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1290		5.03	mg/Kg			01/31/24 17:24	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09C

Lab Sample ID: 890-6029-16

Date Collected: 01/24/24 13:30

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
Xylenes, Total	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 14:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	378	S3+	01 - 321			13/85/84 34:37	18/17/84 34:80	3	
3,4-Difluorobenzene (Surr)	55		01 - 321			13/85/84 34:37	18/17/84 34:80	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/06/24 14:27	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1	mg/Kg			02/08/24 03:27	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/08/24 03:27	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/08/24 03:27	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/26/24 15:36	02/08/24 03:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	388		01 - 321			13/87/84 37:27	18/19/84 12:80	3	
o-peryhen6l	322	S3+	01 - 321			13/87/84 37:27	18/19/84 12:80	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1050		4.98	mg/Kg			01/31/24 17:29	1	

Client Sample ID: PH09D

Lab Sample ID: 890-6029-17

Date Collected: 01/24/24 13:55

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 14:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	349	S3+	01 - 321			13/85/84 34:37	18/17/84 34:72	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09D

Lab Sample ID: 890-6029-17

Date Collected: 01/24/24 13:55

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3,4-Difluorobenzene (Surr)	54		01 - 321			13/85/84 34:37	18/17/84 34:72	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 14:53	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg			02/08/24 03:49	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 03:49	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 03:49	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/26/24 15:36	02/08/24 03:49	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	59		01 - 321			13/87/84 3T:27	18/19/84 12:45	3	
o-perylene	313		01 - 321			13/87/84 3T:27	18/19/84 12:45	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	310		4.96	mg/Kg			01/31/24 17:33	1	

Client Sample ID: PH10

Lab Sample ID: 890-6029-18

Date Collected: 01/24/24 14:00

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
Toluene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		01/29/24 14:16	02/06/24 15:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	3TT	S3+	01 - 321			13/85/84 34:37	18/17/84 3T:35	3	
3,4-Difluorobenzene (Surr)	05		01 - 321			13/85/84 34:37	18/17/84 3T:35	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/06/24 15:19	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			02/08/24 04:11	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH10

Lab Sample ID: 890-6029-18

Date Collected: 01/24/24 14:00

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 04:11	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 04:11	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/24 15:36	02/08/24 04:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	314		01 - 321			13/87/84 3T:27	18/19/84 14:33	3	
o-peryhen6l	338		01 - 321			13/87/84 3T:27	18/19/84 14:33	3	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	326		4.97	mg/Kg			01/31/24 17:38	1	

Client Sample ID: PH10A

Lab Sample ID: 890-6029-19

Date Collected: 01/24/24 14:05

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
Xylenes, Total	<0.00399	U *1	0.00399	mg/Kg		01/29/24 14:16	02/06/24 15:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	330		01 - 321			13/85/84 34:37	18/17/84 3T:4T	3	
3,4-Difluorobenzene (Surr)	333		01 - 321			13/85/84 34:37	18/17/84 3T:4T	3	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/06/24 15:45	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			02/08/24 04:32	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 04:32	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 04:32	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/24 15:36	02/08/24 04:32	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	337		01 - 321			13/87/84 3T:27	18/19/84 14:28	3	
o-perylene	339		01 - 321			13/87/84 3T:27	18/19/84 14:28	3	

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH10A

Lab Sample ID: 890-6029-19

Date Collected: 01/24/24 14:05

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	275		4.97	mg/Kg			01/31/24 17:43	1	

Client Sample ID: PH10B

Lab Sample ID: 890-6029-20

Date Collected: 01/24/24 14:10

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
m-Xylene & p-Xylene	<0.00401	U *1	0.00401	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
Xylenes, Total	<0.00401	U *1	0.00401	mg/Kg		01/29/24 14:16	02/06/24 16:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	378	S3+	01 - 321			13/85/84 34:37	18/17/84 37:33	3	
3,4-Difluorobenzene (Surr)	388		01 - 321			13/85/84 34:37	18/17/84 37:33	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/06/24 16:11	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.5	U	49.5	mg/Kg			02/08/24 04:53	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		01/26/24 15:36	02/08/24 04:53	1	
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		01/26/24 15:36	02/08/24 04:53	1	
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		01/26/24 15:36	02/08/24 04:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	332		01 - 321			13/87/84 3T:27	18/19/84 14:T2	3	
o-ptyhen6l	33T		01 - 321			13/87/84 3T:27	18/19/84 14:T2	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	324		5.00	mg/Kg			01/31/24 17:48	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH10C

Lab Sample ID: 890-6029-21

Date Collected: 01/24/24 14:15

Matrix: Solid

Date Received: 01/24/24 16:38

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
Toluene	<0.00201	U	0.00201	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	-	01/29/24 14:08	02/02/24 11:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	330		01 - 321			13/85/84 34:19	18/18/84 33:T1	3	
3,4-Difluorobenzene (Surr)	310		01 - 321			13/85/84 34:19	18/18/84 33:T1	3	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg	-		02/02/24 11:50	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1	mg/Kg	-		02/06/24 17:54	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg	-	01/27/24 21:42	02/06/24 17:54	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg	-	01/27/24 21:42	02/06/24 17:54	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg	-	01/27/24 21:42	02/06/24 17:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
3-Chlorooctane	92		01 - 321			13/80/84 83:48	18/17/84 30:T4	3	
o-peryhenl	9T		01 - 321			13/80/84 83:48	18/17/84 30:T4	3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1020		5.02	mg/Kg	-		01/31/24 21:44	1	

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-6014-A-1-G MS	Matrix Spike	111	97				
890-6014-A-1-H MSD	Matrix Spike Duplicate	107	89				
890-6029-1	PH06	86	73				
890-6029-1 MS	PH06	95	84				
890-6029-1 MSD	PH06	80	93				
890-6029-2	PH06A	103	100				
890-6029-3	PH06B	116	116				
890-6029-4	PH06C	107	107				
890-6029-5	PH07	61 S1-	85				
890-6029-6	PH07A	67 S1-	73				
890-6029-7	PH07B	85	101				
890-6029-8	PH07C	138 S1+	78				
890-6029-9	PH08	104	101				
890-6029-10	PH08A	104	99				
890-6029-11	PH08B	110	88				
890-6029-12	PH08C	107	99				
890-6029-13	PH09	147 S1+	116				
890-6029-14	PH09A	124	109				
890-6029-15	PH09B	110	92				
890-6029-16	PH09C	152 S1+	99				
890-6029-17	PH09D	148 S1+	94				
890-6029-18	PH10	155 S1+	79				
890-6029-19	PH10A	117	111				
890-6029-20	PH10B	162 S1+	122				
890-6029-21	PH10C	117	107				
LCS 880-71844/1-A	Lab Control Sample	99	98				
LCS 880-71846/1-A	Lab Control Sample	123	97				
LCSD 880-71844/2-A	Lab Control Sample Dup	106	94				
LCSD 880-71846/2-A	Lab Control Sample Dup	79	77				
MB 880-71843/5-A	Method Blank	117	115				
MB 880-71844/5-A	Method Blank	135 S1+	120				
MB 880-71846/5-A	Method Blank	64 S1-	95				
MB 880-72108/5-A	Method Blank	77	89				
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	OTPH1				
		(70-130)	(70-130)				
880-38548-A-1-B MS	Matrix Spike	90	86				
880-38548-A-1-C MSD	Matrix Spike Duplicate	91	88				
890-6029-1	PH06	111	119				
890-6029-1 MS	PH06	126	121				
890-6029-1 MSD	PH06	126	120				
890-6029-2	PH06A	119	123				

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Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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)
890-6029-3	PH06B	127	136 S1+
890-6029-4	PH06C	111	120
890-6029-5	PH07	118	121
890-6029-6	PH07A	116	116
890-6029-7	PH07B	108	112
890-6029-8	PH07C	119	122
890-6029-9	PH08	123	119
890-6029-10	PH08A	108	112
890-6029-11	PH08B	119	119
890-6029-12	PH08C	120	127
890-6029-13	PH09	126	130
890-6029-14	PH09A	128	136 S1+
890-6029-15	PH09B	115	123
890-6029-16	PH09C	122	133 S1+
890-6029-17	PH09D	98	101
890-6029-18	PH10	104	112
890-6029-19	PH10A	115	118
890-6029-20	PH10B	113	115
890-6029-21	PH10C	83	85
LCS 880-71703/2-A	Lab Control Sample	108	102
LCS 880-71751/2-A	Lab Control Sample	96	114
LCSD 880-71703/3-A	Lab Control Sample Dup	101	99
LCSD 880-71751/3-A	Lab Control Sample Dup	102	119
MB 880-71703/1-A	Method Blank	130	142 S1+
MB 880-71751/1-A - RA2	Method Blank	112	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71843/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 72144					Prep Batch: 71843				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/29/24 13:58	02/01/24 16:21	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	117		70 - 130			01/29/24 13:58	02/01/24 16:21	1	
1,4-Difluorobenzene (Surr)	115		70 - 130			01/29/24 13:58	02/01/24 16:21	1	

Lab Sample ID: MB 880-71844/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 72144						Prep Batch: 71844			
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/29/24 14:08	02/02/24 04:31		1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			01/29/24 14:08	02/02/24 04:31		1
1,4-Difluorobenzene (Surr)	120		70 - 130			01/29/24 14:08	02/02/24 04:31		1

Lab Sample ID: LCS 880-71844/1-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 72144					Prep Batch: 71844				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		
							Limits		
Benzene	0.100	0.09953		mg/Kg		100	70 - 130		
Toluene	0.100	0.08932		mg/Kg		89	70 - 130		
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130		
o-Xylene	0.100	0.09013		mg/Kg		90	70 - 130		
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-71844/2-A						Client Sample ID: Lab Control Sample Dup			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 72144						Prep Batch: 71844			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09028		mg/Kg		90	70 - 130	10	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-71844/2-A

Matrix: Solid

Analysis Batch: 72144

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09191		mg/Kg		92	70 - 130		3	35
Ethylbenzene	0.100	0.1055		mg/Kg		106	70 - 130		0	35
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130		13	35
o-Xylene	0.100	0.09496		mg/Kg		95	70 - 130		5	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-6014-A-1-G MS

Matrix: Solid

Analysis Batch: 72144

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00200	U	0.0990	0.08542		mg/Kg		86	70 - 130	
Toluene	<0.00200	U	0.0990	0.08330		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00200	U	0.0990	0.09223		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1665		mg/Kg		84	70 - 130	
o-Xylene	<0.00200	U	0.0990	0.07421		mg/Kg		75	70 - 130	

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

Lab Sample ID: 890-6014-A-1-H MSD

Matrix: Solid

Analysis Batch: 72144

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00200	U	0.0998	0.07954		mg/Kg		80	70 - 130		7	35
Toluene	<0.00200	U	0.0998	0.08292		mg/Kg		83	70 - 130		0	35
Ethylbenzene	<0.00200	U	0.0998	0.09177		mg/Kg		92	70 - 130		0	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1637		mg/Kg		82	70 - 130		2	35
o-Xylene	<0.00200	U	0.0998	0.07902		mg/Kg		79	70 - 130		6	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-71846/5-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71846

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 05:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 05:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 05:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/29/24 14:16	02/06/24 05:40	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-71846/5-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71846

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/29/24 14:16	02/06/24 05:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/29/24 14:16	02/06/24 05:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130			01/29/24 14:16	02/06/24 05:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130			01/29/24 14:16	02/06/24 05:40	1

Lab Sample ID: LCS 880-71846/1-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1126		mg/Kg		113	70 - 130
Toluene	0.100	0.09553		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2495		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	123		70 - 130				
1,4-Difluorobenzene (Surr)	97		70 - 130				

Lab Sample ID: LCSD 880-71846/2-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08017		mg/Kg		80	70 - 130	34	35
Toluene	0.100	0.08329		mg/Kg		83	70 - 130	14	35
Ethylbenzene	0.100	0.07625		mg/Kg		76	70 - 130	35	35
m-Xylene & p-Xylene	0.200	0.1587	*1	mg/Kg		79	70 - 130	44	35
o-Xylene	0.100	0.07778	*1	mg/Kg		78	70 - 130	40	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	79		70 - 130						
1,4-Difluorobenzene (Surr)	77		70 - 130						

Lab Sample ID: 890-6029-1 MS

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: PH06

Prep Type: Total/NA

Prep Batch: 71846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.06651	F1	mg/Kg		67	70 - 130
Toluene	<0.00199	U F1 F2	0.0996	0.04989	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.05608	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00398	U *1 F1	0.199	0.1118	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00199	U *1 F1	0.0996	0.06596	F1	mg/Kg		66	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: 890-6029-1 MS
Matrix: Solid
Analysis Batch: 72370

Client Sample ID: PH06
Prep Type: Total/NA
Prep Batch: 71846

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-6029-1 MSD
Matrix: Solid
Analysis Batch: 72370

Client Sample ID: PH06
Prep Type: Total/NA
Prep Batch: 71846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.04653	F1	mg/Kg		47	70 - 130	35	35
Toluene	<0.00199	U F1 F2	0.0998	0.03315	F1 F2	mg/Kg		33	70 - 130	40	35
Ethylbenzene	<0.00199	U F1	0.0998	0.04496	F1	mg/Kg		45	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U *1 F1	0.200	0.1126	F1	mg/Kg		56	70 - 130	1	35
o-Xylene	<0.00199	U *1 F1	0.0998	0.05099	F1	mg/Kg		51	70 - 130	26	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-72108/5-A
Matrix: Solid
Analysis Batch: 72370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72108

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/01/24 10:24	02/05/24 16:00	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	77		70 - 130	02/01/24 10:24	02/05/24 16:00	1		
1,4-Difluorobenzene (Surr)	89		70 - 130	02/01/24 10:24	02/05/24 16:00	1		

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

Lab Sample ID: MB 880-71703/1-A
Matrix: Solid
Analysis Batch: 72541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71703

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/26/24 15:35	02/07/24 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/24 15:35	02/07/24 20:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/24 15:35	02/07/24 20:00	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: MB 880-71703/1-A
Matrix: Solid
Analysis Batch: 72541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71703

Surrogate	MB MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier			Analyzed	
1-Chlorooctane	130		70 - 130	01/26/24 15:35	02/07/24 20:00	1
o-Terphenyl	142	S1+	70 - 130	01/26/24 15:35	02/07/24 20:00	1

Lab Sample ID: LCS 880-71703/2-A
Matrix: Solid
Analysis Batch: 72541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	865.8		mg/Kg		87	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	935.4		mg/Kg		94	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-71703/3-A
Matrix: Solid
Analysis Batch: 72541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	809.8		mg/Kg		81	70 - 130		7	20
Diesel Range Organics (Over C10-C28)	1000	897.0		mg/Kg		90	70 - 130		4	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-6029-1 MS
Matrix: Solid
Analysis Batch: 72541

Client Sample ID: PH06
Prep Type: Total/NA
Prep Batch: 71703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	879.7		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	938.1		mg/Kg		90	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	126		70 - 130
o-Terphenyl	121		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: 890-6029-1 MSD

Matrix: Solid

Analysis Batch: 72541

Client Sample ID: PH06

Prep Type: Total/NA

Prep Batch: 71703

	Sample	Sample	Spike	MSD	MSD		D	%Rec	%Rec	RPD	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit			Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	974.5		mg/Kg		93	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	941.5		mg/Kg		90	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	126		70 - 130								
o-Terphenyl	120		70 - 130								

Lab Sample ID: LCS 880-71751/2-A

Matrix: Solid

Analysis Batch: 72446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	114		70 - 130				

Lab Sample ID: LCSD 880-71751/3-A

Matrix: Solid

Analysis Batch: 72446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	879.4		mg/Kg	-	88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	965.7		mg/Kg	-	97	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: 880-38548-A-1-B MS

Matrix: Solid

Analysis Batch: 72446

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71751

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	799.5		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	81.6	F1	1000	754.6	F1	mg/Kg		67	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Lab Sample ID: 880-38548-A-1-B MS
Matrix: Solid
Analysis Batch: 72446

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71751

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

Lab Sample ID: 880-38548-A-1-C MSD
Matrix: Solid
Analysis Batch: 72446

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	780.5		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	81.6	F1	1000	772.4	F1	mg/Kg		69	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	88		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-71751/1-A
Matrix: Solid
Analysis Batch: 72446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71751

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0	mg/Kg		01/27/24 21:42	02/06/24 07:12	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0	mg/Kg		01/27/24 21:42	02/06/24 07:12	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0	mg/Kg		01/27/24 21:42	02/06/24 07:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	112		70 - 130			01/27/24 21:42	02/06/24 07:12	1
o-Terphenyl - RA2	114		70 - 130			01/27/24 21:42	02/06/24 07:12	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71670/1-A
Matrix: Solid
Analysis Batch: 71747

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			01/30/24 20:12	1

Lab Sample ID: LCS 880-71670/2-A
Matrix: Solid
Analysis Batch: 71747

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.0		mg/Kg		105	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-71670/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71747											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-6029-1 MS				Client Sample ID: PH06							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71747											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	27.8	F1	253	324.0	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 890-6029-1 MSD				Client Sample ID: PH06							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71747											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.8	F1	253	323.1	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: 890-6029-11 MS				Client Sample ID: PH08B							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71747											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	151	F1	250	409.3		mg/Kg		104	90 - 110		

Lab Sample ID: 890-6029-11 MSD				Client Sample ID: PH08B							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71747											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	151	F1	250	455.1	F1	mg/Kg		122	90 - 110	11	20

Lab Sample ID: MB 880-71672/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71748											
Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed		Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			01/31/24 20:45		1	

Lab Sample ID: LCS 880-71672/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71748											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.3		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-71672/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71748											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	272.7		mg/Kg		109	90 - 110	1	20

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6024-A-1-B MS							Client Sample ID: Matrix Spike				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 71748											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	181	F1	250	481.8	F1	mg/Kg		120	90 - 110		

Lab Sample ID: 890-6024-A-1-C MSD							Client Sample ID: Matrix Spike Duplicate				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 71748											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	181	F1	250	483.9	F1	mg/Kg		121	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

GC VOA

Prep Batch: 692Lb

I al SampID TM	CDent SampID TM	Prep xyype	d atri7	d etho0	Prep Batch
MB 880-71843/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 692LL

I al SampID TM	CDent SampID TM	Prep xyype	d atri7	d etho0	Prep Batch
890-6029-21	PH10C	Total/NA	Solid	5035	
MB 880-71844/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71844/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71844/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6014-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-6014-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 692L1

I al SampID TM	CDent SampID TM	Prep xyype	d atri7	d etho0	Prep Batch
890-6029-1	PH06	Total/NA	Solid	5035	
890-6029-2	PH06A	Total/NA	Solid	5035	
890-6029-3	PH06B	Total/NA	Solid	5035	
890-6029-4	PH06C	Total/NA	Solid	5035	
890-6029-5	PH07	Total/NA	Solid	5035	
890-6029-6	PH07A	Total/NA	Solid	5035	
890-6029-7	PH07B	Total/NA	Solid	5035	
890-6029-8	PH07C	Total/NA	Solid	5035	
890-6029-9	PH08	Total/NA	Solid	5035	
890-6029-10	PH08A	Total/NA	Solid	5035	
890-6029-11	PH08B	Total/NA	Solid	5035	
890-6029-12	PH08C	Total/NA	Solid	5035	
890-6029-13	PH09	Total/NA	Solid	5035	
890-6029-14	PH09A	Total/NA	Solid	5035	
890-6029-15	PH09B	Total/NA	Solid	5035	
890-6029-16	PH09C	Total/NA	Solid	5035	
890-6029-17	PH09D	Total/NA	Solid	5035	
890-6029-18	PH10	Total/NA	Solid	5035	
890-6029-19	PH10A	Total/NA	Solid	5035	
890-6029-20	PH10B	Total/NA	Solid	5035	
MB 880-71846/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71846/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71846/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6029-1 MS	PH06	Total/NA	Solid	5035	
890-6029-1 MSD	PH06	Total/NA	Solid	5035	

Prep Batch: 63952

I al SampID TM	CDent SampID TM	Prep xyype	d atri7	d etho0	Prep Batch
MB 880-72108/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 639LL

I al SampID TM	CDent SampID TM	Prep xyype	d atri7	d etho0	Prep Batch
890-6029-21	PH10C	Total/NA	Solid	8021B	71844
MB 880-71843/5-A	Method Blank	Total/NA	Solid	8021B	71843
MB 880-71844/5-A	Method Blank	Total/NA	Solid	8021B	71844
LCS 880-71844/1-A	Lab Control Sample	Total/NA	Solid	8021B	71844
LCSD 880-71844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71844
890-6014-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	71844

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

GC VOA 8Continue04

Analysis Batch: 639LL 8Continue04

Label Sample ID	Client Sample ID	Prep type	date 17	date 00	Prep Batch
890-6014-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71844

Analysis Batch: 633b1

Label Sample ID	Client Sample ID	Prep type	date 17	date 00	Prep Batch
890-6029-1	PH06	Total/NA	Solid	Total BTEX	
890-6029-2	PH06A	Total/NA	Solid	Total BTEX	
890-6029-3	PH06B	Total/NA	Solid	Total BTEX	
890-6029-4	PH06C	Total/NA	Solid	Total BTEX	
890-6029-5	PH07	Total/NA	Solid	Total BTEX	
890-6029-6	PH07A	Total/NA	Solid	Total BTEX	
890-6029-7	PH07B	Total/NA	Solid	Total BTEX	
890-6029-8	PH07C	Total/NA	Solid	Total BTEX	
890-6029-9	PH08	Total/NA	Solid	Total BTEX	
890-6029-10	PH08A	Total/NA	Solid	Total BTEX	
890-6029-11	PH08B	Total/NA	Solid	Total BTEX	
890-6029-12	PH08C	Total/NA	Solid	Total BTEX	
890-6029-13	PH09	Total/NA	Solid	Total BTEX	
890-6029-14	PH09A	Total/NA	Solid	Total BTEX	
890-6029-15	PH09B	Total/NA	Solid	Total BTEX	
890-6029-16	PH09C	Total/NA	Solid	Total BTEX	
890-6029-17	PH09D	Total/NA	Solid	Total BTEX	
890-6029-18	PH10	Total/NA	Solid	Total BTEX	
890-6029-19	PH10A	Total/NA	Solid	Total BTEX	
890-6029-20	PH10B	Total/NA	Solid	Total BTEX	
890-6029-21	PH10C	Total/NA	Solid	Total BTEX	

Analysis Batch: 63b65

Label Sample ID	Client Sample ID	Prep type	date 17	date 00	Prep Batch
890-6029-1	PH06	Total/NA	Solid	8021B	71846
890-6029-2	PH06A	Total/NA	Solid	8021B	71846
890-6029-3	PH06B	Total/NA	Solid	8021B	71846
890-6029-4	PH06C	Total/NA	Solid	8021B	71846
890-6029-5	PH07	Total/NA	Solid	8021B	71846
890-6029-6	PH07A	Total/NA	Solid	8021B	71846
890-6029-7	PH07B	Total/NA	Solid	8021B	71846
890-6029-8	PH07C	Total/NA	Solid	8021B	71846
890-6029-9	PH08	Total/NA	Solid	8021B	71846
890-6029-10	PH08A	Total/NA	Solid	8021B	71846
890-6029-11	PH08B	Total/NA	Solid	8021B	71846
890-6029-12	PH08C	Total/NA	Solid	8021B	71846
890-6029-13	PH09	Total/NA	Solid	8021B	71846
890-6029-14	PH09A	Total/NA	Solid	8021B	71846
890-6029-15	PH09B	Total/NA	Solid	8021B	71846
890-6029-16	PH09C	Total/NA	Solid	8021B	71846
890-6029-17	PH09D	Total/NA	Solid	8021B	71846
890-6029-18	PH10	Total/NA	Solid	8021B	71846
890-6029-19	PH10A	Total/NA	Solid	8021B	71846
890-6029-20	PH10B	Total/NA	Solid	8021B	71846
MB 880-71846/5-A	Method Blank	Total/NA	Solid	8021B	71846
MB 880-72108/5-A	Method Blank	Total/NA	Solid	8021B	72108
LCS 880-71846/1-A	Lab Control Sample	Total/NA	Solid	8021B	71846

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

GC VOA 8Continue04

Analysis Batch: 63b65 8Continue04

Lab Sample ID	Client Sample ID	Prep type	date	method	Prep Batch
LCSD 880-71846/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71846
890-6029-1 MS	PH06	Total/NA	Solid	8021B	71846
890-6029-1 MSD	PH06	Total/NA	Solid	8021B	71846

GC Semi VOA

Prep Batch: 6965b

Lab Sample ID	Client Sample ID	Prep type	date	method	Prep Batch
890-6029-1	PH06	Total/NA	Solid	8015NM Prep	
890-6029-2	PH06A	Total/NA	Solid	8015NM Prep	
890-6029-3	PH06B	Total/NA	Solid	8015NM Prep	
890-6029-4	PH06C	Total/NA	Solid	8015NM Prep	
890-6029-5	PH07	Total/NA	Solid	8015NM Prep	
890-6029-6	PH07A	Total/NA	Solid	8015NM Prep	
890-6029-7	PH07B	Total/NA	Solid	8015NM Prep	
890-6029-8	PH07C	Total/NA	Solid	8015NM Prep	
890-6029-9	PH08	Total/NA	Solid	8015NM Prep	
890-6029-10	PH08A	Total/NA	Solid	8015NM Prep	
890-6029-11	PH08B	Total/NA	Solid	8015NM Prep	
890-6029-12	PH08C	Total/NA	Solid	8015NM Prep	
890-6029-13	PH09	Total/NA	Solid	8015NM Prep	
890-6029-14	PH09A	Total/NA	Solid	8015NM Prep	
890-6029-15	PH09B	Total/NA	Solid	8015NM Prep	
890-6029-16	PH09C	Total/NA	Solid	8015NM Prep	
890-6029-17	PH09D	Total/NA	Solid	8015NM Prep	
890-6029-18	PH10	Total/NA	Solid	8015NM Prep	
890-6029-19	PH10A	Total/NA	Solid	8015NM Prep	
890-6029-20	PH10B	Total/NA	Solid	8015NM Prep	
MB 880-71703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6029-1 MS	PH06	Total/NA	Solid	8015NM Prep	
890-6029-1 MSD	PH06	Total/NA	Solid	8015NM Prep	

Prep Batch: 696(9

Lab Sample ID	Client Sample ID	Prep type	date	method	Prep Batch
890-6029-21	PH10C	Total/NA	Solid	8015NM Prep	
MB 880-71751/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71751/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38548-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38548-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63LL1

Lab Sample ID	Client Sample ID	Prep type	date	method	Prep Batch
890-6029-21	PH10C	Total/NA	Solid	8015B NM	71751
MB 880-71751/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	71751
LCS 880-71751/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71751
LCSD 880-71751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71751
880-38548-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71751
880-38548-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71751

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 63(L9

Lab Sample ID	Client Sample ID	Prep type	Material	Method	Prep Batch
890-6029-1	PH06	Total/NA	Solid	8015B NM	71703
890-6029-2	PH06A	Total/NA	Solid	8015B NM	71703
890-6029-3	PH06B	Total/NA	Solid	8015B NM	71703
890-6029-4	PH06C	Total/NA	Solid	8015B NM	71703
890-6029-5	PH07	Total/NA	Solid	8015B NM	71703
890-6029-6	PH07A	Total/NA	Solid	8015B NM	71703
890-6029-7	PH07B	Total/NA	Solid	8015B NM	71703
890-6029-8	PH07C	Total/NA	Solid	8015B NM	71703
890-6029-9	PH08	Total/NA	Solid	8015B NM	71703
890-6029-10	PH08A	Total/NA	Solid	8015B NM	71703
890-6029-11	PH08B	Total/NA	Solid	8015B NM	71703
890-6029-12	PH08C	Total/NA	Solid	8015B NM	71703
890-6029-13	PH09	Total/NA	Solid	8015B NM	71703
890-6029-14	PH09A	Total/NA	Solid	8015B NM	71703
890-6029-15	PH09B	Total/NA	Solid	8015B NM	71703
890-6029-16	PH09C	Total/NA	Solid	8015B NM	71703
890-6029-17	PH09D	Total/NA	Solid	8015B NM	71703
890-6029-18	PH10	Total/NA	Solid	8015B NM	71703
890-6029-19	PH10A	Total/NA	Solid	8015B NM	71703
890-6029-20	PH10B	Total/NA	Solid	8015B NM	71703
MB 880-71703/1-A	Method Blank	Total/NA	Solid	8015B NM	71703
LCS 880-71703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71703
LCSD 880-71703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71703
890-6029-1 MS	PH06	Total/NA	Solid	8015B NM	71703
890-6029-1 MSD	PH06	Total/NA	Solid	8015B NM	71703

Analysis Batch: 63() 9

Lab Sample ID	Client Sample ID	Prep type	Material	Method	Prep Batch
890-6029-1	PH06	Total/NA	Solid	8015 NM	
890-6029-2	PH06A	Total/NA	Solid	8015 NM	
890-6029-3	PH06B	Total/NA	Solid	8015 NM	
890-6029-4	PH06C	Total/NA	Solid	8015 NM	
890-6029-5	PH07	Total/NA	Solid	8015 NM	
890-6029-6	PH07A	Total/NA	Solid	8015 NM	
890-6029-7	PH07B	Total/NA	Solid	8015 NM	
890-6029-8	PH07C	Total/NA	Solid	8015 NM	
890-6029-9	PH08	Total/NA	Solid	8015 NM	
890-6029-10	PH08A	Total/NA	Solid	8015 NM	
890-6029-11	PH08B	Total/NA	Solid	8015 NM	
890-6029-12	PH08C	Total/NA	Solid	8015 NM	
890-6029-13	PH09	Total/NA	Solid	8015 NM	
890-6029-14	PH09A	Total/NA	Solid	8015 NM	
890-6029-15	PH09B	Total/NA	Solid	8015 NM	
890-6029-16	PH09C	Total/NA	Solid	8015 NM	
890-6029-17	PH09D	Total/NA	Solid	8015 NM	
890-6029-18	PH10	Total/NA	Solid	8015 NM	
890-6029-19	PH10A	Total/NA	Solid	8015 NM	
890-6029-20	PH10B	Total/NA	Solid	8015 NM	
890-6029-21	PH10C	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

HPI C/TC

Each Batch: 69165

Label Sample ID	Client Sample ID	Prep type	Material	Method	Prep Batch
890-6029-1	PH06	Soluble	Solid	DI Leach	
890-6029-2	PH06A	Soluble	Solid	DI Leach	
890-6029-3	PH06B	Soluble	Solid	DI Leach	
890-6029-4	PH06C	Soluble	Solid	DI Leach	
890-6029-5	PH07	Soluble	Solid	DI Leach	
890-6029-6	PH07A	Soluble	Solid	DI Leach	
890-6029-7	PH07B	Soluble	Solid	DI Leach	
890-6029-8	PH07C	Soluble	Solid	DI Leach	
890-6029-9	PH08	Soluble	Solid	DI Leach	
890-6029-10	PH08A	Soluble	Solid	DI Leach	
890-6029-11	PH08B	Soluble	Solid	DI Leach	
890-6029-12	PH08C	Soluble	Solid	DI Leach	
890-6029-13	PH09	Soluble	Solid	DI Leach	
890-6029-14	PH09A	Soluble	Solid	DI Leach	
890-6029-15	PH09B	Soluble	Solid	DI Leach	
890-6029-16	PH09C	Soluble	Solid	DI Leach	
890-6029-17	PH09D	Soluble	Solid	DI Leach	
890-6029-18	PH10	Soluble	Solid	DI Leach	
890-6029-19	PH10A	Soluble	Solid	DI Leach	
890-6029-20	PH10B	Soluble	Solid	DI Leach	
MB 880-71670/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71670/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71670/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6029-1 MS	PH06	Soluble	Solid	DI Leach	
890-6029-1 MSD	PH06	Soluble	Solid	DI Leach	
890-6029-11 MS	PH08B	Soluble	Solid	DI Leach	
890-6029-11 MSD	PH08B	Soluble	Solid	DI Leach	

Each Batch: 69163

Label Sample ID	Client Sample ID	Prep type	Material	Method	Prep Batch
890-6029-21	PH10C	Soluble	Solid	DI Leach	
MB 880-71672/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71672/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71672/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6024-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6024-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 696L6

Label Sample ID	Client Sample ID	Prep type	Material	Method	Prep Batch
890-6029-1	PH06	Soluble	Solid	300.0	71670
890-6029-2	PH06A	Soluble	Solid	300.0	71670
890-6029-3	PH06B	Soluble	Solid	300.0	71670
890-6029-4	PH06C	Soluble	Solid	300.0	71670
890-6029-5	PH07	Soluble	Solid	300.0	71670
890-6029-6	PH07A	Soluble	Solid	300.0	71670
890-6029-7	PH07B	Soluble	Solid	300.0	71670
890-6029-8	PH07C	Soluble	Solid	300.0	71670
890-6029-9	PH08	Soluble	Solid	300.0	71670
890-6029-10	PH08A	Soluble	Solid	300.0	71670
890-6029-11	PH08B	Soluble	Solid	300.0	71670
890-6029-12	PH08C	Soluble	Solid	300.0	71670

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

HPI C/TC 8Continue04

Analysis Batch: 696L6 8Continue04

I al SampID TM	Client Sample ID TM	Prep xype	d atri7	d etho0	Prep Batch
890-6029-13	PH09	Soluble	Solid	300.0	71670
890-6029-14	PH09A	Soluble	Solid	300.0	71670
890-6029-15	PH09B	Soluble	Solid	300.0	71670
890-6029-16	PH09C	Soluble	Solid	300.0	71670
890-6029-17	PH09D	Soluble	Solid	300.0	71670
890-6029-18	PH10	Soluble	Solid	300.0	71670
890-6029-19	PH10A	Soluble	Solid	300.0	71670
890-6029-20	PH10B	Soluble	Solid	300.0	71670
MB 880-71670/1-A	Method Blank	Soluble	Solid	300.0	71670
LCS 880-71670/2-A	Lab Control Sample	Soluble	Solid	300.0	71670
LCSD 880-71670/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71670
890-6029-1 MS	PH06	Soluble	Solid	300.0	71670
890-6029-1 MSD	PH06	Soluble	Solid	300.0	71670
890-6029-11 MS	PH08B	Soluble	Solid	300.0	71670
890-6029-11 MSD	PH08B	Soluble	Solid	300.0	71670

Analysis Batch: 696L2

I al SampID TM	Client Sample ID TM	Prep xype	d atri7	d etho0	Prep Batch
890-6029-21	PH10C	Soluble	Solid	300.0	71672
MB 880-71672/1-A	Method Blank	Soluble	Solid	300.0	71672
LCS 880-71672/2-A	Lab Control Sample	Soluble	Solid	300.0	71672
LCSD 880-71672/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71672
890-6024-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71672
890-6024-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71672

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06

Date Collected: 01/24/24 09:10

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-1

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			5.03 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 06:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 21:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 20:27	CH	EET MID

Client Sample ID: PH06A

Date Collected: 01/24/24 09:15

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-2

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			5.01 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 06:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 22:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 20:42	CH	EET MID

Client Sample ID: PH06B

Date Collected: 01/24/24 09:20

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-3

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			4.98 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 07:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 07:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 22:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 20:47	CH	EET MID

Client Sample ID: PH06C

Date Collected: 01/24/24 09:25

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 07:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 07:27	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH06C

Lab Sample ID: 890-6029-4

Date Collected: 01/24/24 09:25

Matrix: Solid

Date Received: 01/24/24 16:38

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			72591	02/07/24 22:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 22:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 20:52	CH	EET MID

Client Sample ID: PH07

Lab Sample ID: 890-6029-5

Date Collected: 01/24/24 10:40

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 07:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 07:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 23:13	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 20:57	CH	EET MID

Client Sample ID: PH07A

Lab Sample ID: 890-6029-6

Date Collected: 01/24/24 10:45

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 08:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 08:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 23:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:27	CH	EET MID

Client Sample ID: PH07B

Lab Sample ID: 890-6029-7

Date Collected: 01/24/24 12:15

Matrix: Solid

Date Received: 01/24/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 08:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/07/24 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/07/24 23:55	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH07B

Date Collected: 01/24/24 12:15

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-7

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			4.98 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:32	CH	EET MID

Client Sample ID: PH07C

Date Collected: 01/24/24 12:20

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 09:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 09:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 00:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 00:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:37	CH	EET MID

Client Sample ID: PH08

Date Collected: 01/24/24 12:25

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 09:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 00:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 00:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:41	CH	EET MID

Client Sample ID: PH08A

Date Collected: 01/24/24 12:30

Date Received: 01/24/24 16:38

Lab Sample ID: 890-6029-10

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			5.02 g	5 mL	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 10:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 10:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 00:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:46	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH08B

Lab Sample ID: 890-6029-11

Date Collected: 01/24/24 12:35

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 01:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/30/24 21:51	CH	EET MID

Client Sample ID: PH08C

Lab Sample ID: 890-6029-12

Date Collected: 01/24/24 12:40

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 12:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 02:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 02:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:00	CH	EET MID

Client Sample ID: PH09

Lab Sample ID: 890-6029-13

Date Collected: 01/24/24 13:10

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 13:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 02:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71747	01/31/24 17:52	CH	EET MID

Client Sample ID: PH09A

Lab Sample ID: 890-6029-14

Date Collected: 01/24/24 13:15

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 13:34	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09A

Lab Sample ID: 890-6029-14

Date Collected: 01/24/24 13:15

Matrix: Solid

Date Received: 01/24/24 16:38

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			72591	02/08/24 02:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 02:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71747	01/31/24 17:19	CH	EET MID

Client Sample ID: PH09B

Lab Sample ID: 890-6029-15

Date Collected: 01/24/24 13:25

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 03:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:24	CH	EET MID

Client Sample ID: PH09C

Lab Sample ID: 890-6029-16

Date Collected: 01/24/24 13:30

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:29	CH	EET MID

Client Sample ID: PH09D

Lab Sample ID: 890-6029-17

Date Collected: 01/24/24 13:55

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 03:49	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH09D

Lab Sample ID: 890-6029-17

Date Collected: 01/24/24 13:55

Matrix: Solid

Date Received: 01/24/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:33	CH	EET MID

Client Sample ID: PH10

Lab Sample ID: 890-6029-18

Date Collected: 01/24/24 14:00

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 15:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 15:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 04:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 04:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:38	CH	EET MID

Client Sample ID: PH10A

Lab Sample ID: 890-6029-19

Date Collected: 01/24/24 14:05

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 04:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 04:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:43	CH	EET MID

Client Sample ID: PH10B

Lab Sample ID: 890-6029-20

Date Collected: 01/24/24 14:10

Matrix: Solid

Date Received: 01/24/24 16:38

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	71846	01/29/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 16:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/06/24 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/08/24 04:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	71703	01/26/24 15:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72541	02/08/24 04:53	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71670	01/26/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71747	01/31/24 17:48	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Client Sample ID: PH10C

Lab Sample ID: 890-6029-21

Date Collected: 01/24/24 14:15

Matrix: Solid

Date Received: 01/24/24 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71844	01/29/24 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/02/24 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72236	02/02/24 11:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72591	02/06/24 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	71751	01/27/24 21:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72446	02/06/24 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71672	01/26/24 09:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71748	01/31/24 21:44	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6029-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6029-1	PH06	Solid	01/24/24 09:10	01/24/24 16:38	0.5
890-6029-2	PH06A	Solid	01/24/24 09:15	01/24/24 16:38	1
890-6029-3	PH06B	Solid	01/24/24 09:20	01/24/24 16:38	2
890-6029-4	PH06C	Solid	01/24/24 09:25	01/24/24 16:38	3
890-6029-5	PH07	Solid	01/24/24 10:40	01/24/24 16:38	0.5
890-6029-6	PH07A	Solid	01/24/24 10:45	01/24/24 16:38	1
890-6029-7	PH07B	Solid	01/24/24 12:15	01/24/24 16:38	2
890-6029-8	PH07C	Solid	01/24/24 12:20	01/24/24 16:38	3
890-6029-9	PH08	Solid	01/24/24 12:25	01/24/24 16:38	0.5
890-6029-10	PH08A	Solid	01/24/24 12:30	01/24/24 16:38	1
890-6029-11	PH08B	Solid	01/24/24 12:35	01/24/24 16:38	2
890-6029-12	PH08C	Solid	01/24/24 12:40	01/24/24 16:38	3
890-6029-13	PH09	Solid	01/24/24 13:10	01/24/24 16:38	0.5
890-6029-14	PH09A	Solid	01/24/24 13:15	01/24/24 16:38	1
890-6029-15	PH09B	Solid	01/24/24 13:25	01/24/24 16:38	2
890-6029-16	PH09C	Solid	01/24/24 13:30	01/24/24 16:38	3
890-6029-17	PH09D	Solid	01/24/24 13:55	01/24/24 16:38	4
890-6029-18	PH10	Solid	01/24/24 14:00	01/24/24 16:38	0.5
890-6029-19	PH10A	Solid	01/24/24 14:05	01/24/24 16:38	1
890-6029-20	PH10B	Solid	01/24/24 14:10	01/24/24 16:38	2
890-6029-21	PH10C	Solid	01/24/24 14:15	01/24/24 16:38	3



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 500-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

6029

Project Manager: Ben Belli
Company Name: Ensolum, LLC
Address: 3122 National Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: (989) 854-0852
Email: Garrett.Green@ExxonMobil.com

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

Bill to: (if different)
Company Name: Garrett Green
Address: XTO Energy
City, State ZIP: 3104 E. Green St.
Carlsbad, NM 88220
Email: Garrett.Green@ExxonMobil.com

Turn Around
Routine ☒ Rush ☐
Due Date: 5 days
TAT starts the day received by the lab, if received by 4:30pm

Project Name: PUFC IT Battery
Project Number: 0301558215
Project Location: 32.12400, -103.89009
Sampler's Name: Mariaha O'Dell
PO #: _____

SAMPLE RECEIPT
Temp Blank: Yes ☒ No ☐
Samples Received Intact: Yes ☒ No ☐
Cooler Custody Seals: Yes ☒ No ☐
Sample Custody Seals: Yes ☒ No ☐
Total Containers: 3.8

Wet Ice: Yes ☒ No ☐
Thermometer ID: T111107
Correction Factor: -0.2
Temperature Reading: 11.0
Corrected Temperature: 3.8

ANALYSIS REQUEST				Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
PH00	S	1/24/24	9:10	0.5'	G
PH00A	S		9:15	1'	
PH00B	S		9:20	2'	
PH00C	S		9:25	3'	
PH01	S		10:40	0.5'	
PH01A	S		10:45	1'	
PH01B	S		12:15	2'	
PH01C	S		12:20	3'	
PH08	S		12:25	0.5'	
PH08A	S		12:30	1'	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) *Ben Belli* Received by: (Signature) *alsh* Date/Time 1/24/24 14:38
5

Revised Date: 08/25/2016 Rev. 2006.2



Environment Testing
Xenco

Chain of Custody

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Work Order Comments

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

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

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

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Ben Belli

Company Name: Ensolium, LLC

Address: 3122 National Parks Hwy

City, State ZIP: Carlsbad, NM 88220

Phone: (505) 854-0852

Bill to: (if different) Garrett Green

Company Name: XTO Energy

Address: 3104 E. Greene St

City, State ZIP: Carlsbad, NM 88220

Email: Garrett.Green@ExxonMobil.com

Project Name: PLU PC 17 Battery

Project Number: 03C1558215

Project Location: 32.1240W-103.8900E

Sampler's Name: Mariana O'Dell

PO #: _____

Turn Around: ☒ Routine ☐ Rush

Due Date: 5 days

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

Temp Blank: Yes No

Temp Blank: Yes No

Thermometer ID: _____

Correction Factor: _____

Temperature Reading: _____

Corrected Temperature: _____

Wet Ice: Yes No

Thermometer ID: _____

Correction Factor: _____

Temperature Reading: _____

Corrected Temperature: _____

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
PH08BNO	S	1/24/24	12:35	2'	G	1
PH08CNO	S	1/24/24	12:40	3'	G	1
PH09A	S	1/24/24	13:10	0.5'	G	1
PH09B	S	1/24/24	13:15	1'	G	1
PH09C	S	1/24/24	13:20	2'	G	1
PH09D	S	1/24/24	13:25	3'	G	1
PH10	S	1/24/24	13:30	4'	G	1
PH10A	S	1/24/24	13:55	0.5'	G	1
PH10B	S	1/24/24	14:00	1'	G	1
PH10C	S	1/24/24	14:05	2'	G	1

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>M. O'Dell</i>	<i>Ben Belli</i>	1/24/24			

Revised Date: 08/25/2020 Rev. 2009.2



Environment Testing
Xenco

Chain of Custody

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

Project Manager: Ben Bell		Bill to: (if different)		Company Name: Garrett Green		www.xenco.com Page 3 of 3	
Company Name: ENSOLUM, LLC		Company Name:		Address: XTO Energy		Work Order Comments	
Address: 3122 National Parks Hwy		Address:		City, State ZIP: Carlsbad, NM 88220		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
City, State ZIP: Carlsbad, NM 88220		City, State ZIP:		Email: Garrett.Green@xconnmobil.com		State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: (989) 854-0852		Email:		Turn Around: ☒ Routine ☐ Rush		Deliverables: EDD ☐ ADAPT ☐ Other:	
Project Name: PLU PC-17 Battery		Turn Around:		Due Date: 5 days		TAT starts the day received by the lab, if received by 4:30pm	
Project Number: 0361558215		Temp Blank:		Yes No		Wet Ice: Yes No	
Project Location: 32.12406, -103.891009		Thermometer ID:		Yes No		Thermometer ID:	
Sampler's Name: Mariana O'Dell		Correction Factor:		Yes No		Correction Factor:	
PO #: _____		Temperature Reading:		Yes No		Temperature Reading:	
SAMPLE RECEIPT		Corrected Temperature:		Yes No		Corrected Temperature:	
Samples Received Intact:		Thermometer ID:		Yes No		Thermometer ID:	
Cooler Custody Seals:		Correction Factor:		Yes No		Correction Factor:	
Sample Custody Seals:		Temperature Reading:		Yes No		Temperature Reading:	
Total Containers:		Corrected Temperature:		Yes No		Corrected Temperature:	
Sample Identification		Matrix		Date Sampled		Time Sampled	
PH10C		S		2/24/24		14:10	
Depth		Grab/Comp		Depth		Grab/Comp	
3'		G I		3'		G I	
Parameters		# of Cont		Parameters		# of Cont	
X Chlorides		1		X TPH		1	
X BTEX		1		X		1	
Sample Comments		Incident #:		NAAPP233951514		Cost Center:	
1081061001		Ben Bell		1081061001		Ben Bell	
benbell@xensolum.com		Date/Time		Date/Time		Date/Time	
16:38		16:38		16:38		16:38	
Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)	
M. O'Dell		Garrett Green		M. O'Dell		Garrett Green	
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 Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.							
Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)	
M. O'Dell		Garrett Green		M. O'Dell		Garrett Green	
Date/Time		Date/Time		Date/Time		Date/Time	
16:38		16:38		16:38		16:38	
5		4		6		6	

Revised Date: 08/25/2020 (Rev. 2002.2)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5049-6

1SD Number: 0GC6338463

Login Number: 6029
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
2Te hoolers husto' d seylai, f resentaits intyhtp	2rue	
1ymf le husto' d seylsai, f resentayre intyhtp	2rue	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resenp	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytionp	2rue	
g tTe l iel' 1ymf lers nyme f resent on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	Ny	Ae,er to Job Nyrryti. e ,or ' etyilsp
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	Ny	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpypnd reVueste' q 1)q 1 Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z5mm h6)<"xp	Ny	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5049-6

1SD Number: 0GC6338463

Login Number: 6029
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/26/24 11:17 AM

Question	Answer	Comment
2Te hoolers husto' d seylai, f resentaits intyhtp	NY	
1ymf le husto' d seylsai, f resentayre intyhtp	NY	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resent	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytion	2rue	
g tTe l iel' 1ymf lers nyme f resent on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	2rue	
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	NY	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpynd reVueste' q 1)q 1Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z5mm h6)<"xp	NY	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/12/2024 9:49:55 AM

JOB DESCRIPTION

PLU PC 17 Battery
03C1558215

JOB NUMBER

890-6038-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/12/2024 9:49:55 AM

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

Client: Ensolum
Project/Site: PLU PC 17 Battery

Laboratory Job ID: 890-6038-1
SDG: 03C1558215

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6028-1
SDG: 02C1338513

Qualifiers

GC VOA

Qualifier	Qualifier Description
*R	LCS anx/or LCSD is outside acceptance limits. FIMF bias exv
S1-	Surrogate recovery e, ceexs control limits. low bias exv
S1R	Surrogate recovery e, ceexs control limits. FIMF bias exv
U	Indicates tFe analyte was analyzed but not detected

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD z PD e, ceexs control limits
f 1	± S anx/or ± SD recovery e, ceexs control limits
f 5	± S/± SD z PD e, ceexs control limits
S1R	Surrogate recovery e, ceexs control limits. FIMF bias exv
U	Indicates tFe analyte was analyzed but not detected

HPLC/IC

Qualifier	Qualifier Description
U	Indicates tFe analyte was analyzed but not detected

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the pD column to estimate the fat tFe result is reported on a dry weight basis
%z	Percent z recovery
Cf L	Contains free Liquix
Cf U	Colony forming Unit
CNf	Contains No free Liquix
DEz	Duplicate Error z ratio (normalizes absolute difference)
Dil f ac	Dilution factor
DL	Detection Limit (DoD/DOE)
DL. z A. z E. IN	Indicates a Dilution. z e-analysis. z e-e, traction. or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (z axiocFemistry)
EDL	Estimated Detection Limit (Dio, in)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
± CL	EPA recommended ± a, inum Contaminant Level
± DA	± inimum Detectable Activity (z axiocFemistry)
± DC	± inimum Detectable Concentration (z axiocFemistry)
± DL	± etFox Detection Limit
± L	± inimum Level (Dio, in)
± PN	± ost Probable Number
± QL	± etFox Quantitation Limit
NC	Not Calculated
ND	Not Detected at tFe reporting limit (or ± DL or EDL in the flow)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
Pz ES	Presumptive
QC	Quality Control
z Ez	z elative Error z ratio (z axiocFemistry)
z L	z edortinMLimit or z equestex Limit (z axiocFemistry)
z PD	z elative Percent Difference. a measure of the relative difference between two points
TEf	To, icity Equivalent factor (Dio, in)
TEQ	To, icity Equivalent Quotient (Dio, in)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: PLU PC 17 Battery

Job ID: 890-6038-1

Job ID: 890-6038-1

Eurofins Carlsbad

Job Narrative
890-6038-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/25/2024 3:49 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 4.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW10 (890-6038-1), FS13A (890-6038-2), FS12A (890-6038-3), FS21 (890-6038-4) and SW11 (890-6038-5).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-72529/33) and (LCS 880-72388/1-A).

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW10 (890-6038-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/51).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-72388/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-72388 and analytical batch 880-72529 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 870-17905 and analytical batch 870-17969 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO).

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike duplicate recoveries are unavailable for preparation batch 870-17905 and analytical batch 870-17969. The associated laboratory control sample (LCS/LCSD) met acceptance criteria.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added the following samples: (CCV 870-17969/164). Percent recoveries are based on the amount spiked.

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project: PLU PC 17 Battery

Job ID: 890-6038-1

Job ID: 890-6038-1 (Continued)Eurofins Carlsbad

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-6038-A-1-K MS) and (890-6038-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: SW10 (890-6038-1), FS13A (890-6038-2), FS12A (890-6038-3), FS21 (890-6038-4) and SW11 (890-6038-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: SW10
Date Collected: 01/25/24 09:00
Date Received: 01/25/24 15:49

Lab Sample ID: 890-6038-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
Ethylbenzene	<0.00200	U **	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
m-Xylene & p-Xylene	<0.00401	U **	0.00401	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
o-Xylene	<0.00200	U **	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
Xylenes, Total	<0.00401	U **	0.00401	mg/Kg		02/05/24 14:05	02/07/24 23:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			02/08/24 14:08	02/07/24 23:23	1	
1,4-Difluorobenzene (Surr)	109	S1-	70 - 130			02/08/24 14:08	02/07/24 23:23	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/07/24 23:23	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Total TPH	55.5		49.9	mg/Kg			02/05/24 16:03	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)	<49.9	U *1 F1	49.9	mg/Kg		01/30/24 11:32	02/05/24 16:03	1	
Diesel Range Organics (Over C10-C28)	55.5	F1 F2	49.9	mg/Kg		01/30/24 11:32	02/05/24 16:03	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/30/24 11:32	02/05/24 16:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
o-Dichlorobenzene	130	S1T	70 - 130			01/30/24 11:32	02/08/24 11:03	1	
1,1-Dichloroethane	121		70 - 130			01/30/24 11:32	02/08/24 11:03	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	114		4.99	mg/Kg			01/31/24 19:41	1	

Client Sample ID: FS13A
Date Collected: 01/25/24 11:30
Date Received: 01/25/24 15:49

Lab Sample ID: 890-6038-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
Ethylbenzene	<0.00199	U **	0.00199	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
o-Xylene	<0.00199	U **	0.00199	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		02/05/24 14:05	02/07/24 23:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			02/08/24 14:08	02/07/24 23:43	1	
1,4-Difluorobenzene (Surr)	71		70 - 130			02/08/24 14:08	02/07/24 23:43	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: FS13A

Lab Sample ID: 890-6038-2

Date Collected: 01/25/24 11:30

Matrix: Solid

Date Received: 01/25/24 15:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/07/24 23:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/05/24 17:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U *1	50.3	mg/Kg		01/30/24 11:32	02/05/24 17:05	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/30/24 11:32	02/05/24 17:05	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/30/24 11:32	02/05/24 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Cerhcent l	148	S1T	70 - 130	01/30/24 11:52	02/08/24 17:08	1
1-p clorooy@ne	129		70 - 130	01/30/24 11:52	02/08/24 17:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.5		5.01	mg/Kg			01/31/24 19:55	1

Client Sample ID: FS12A

Lab Sample ID: 890-6038-3

Date Collected: 01/25/24 12:30

Matrix: Solid

Date Received: 01/25/24 15:49

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 00:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 00:03	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 00:03	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 00:03	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 00:03	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/08/24 14:08	02/09/24 00:03	1
1:4-, fluorobenzene (Surr)	74		70 - 130	02/08/24 14:08	02/09/24 00:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 00:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/05/24 17:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U *1	50.5	mg/Kg		01/30/24 11:32	02/05/24 17:26	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/30/24 11:32	02/05/24 17:26	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/30/24 11:32	02/05/24 17:26	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: FS12A

Lab Sample ID: 890-6038-3

Date Collected: 01/25/24 12:30

Matrix: Solid

Date Received: 01/25/24 15:49

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Cerhcent l	134	S1T	70 - 130	01/30/24 11:52	02/08/24 17:52	1
1-p clorooy@ne	119		70 - 130	01/30/24 11:52	02/08/24 17:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.4		5.02	mg/Kg			01/31/24 20:00	1

Client Sample ID: FS21

Lab Sample ID: 890-6038-4

Date Collected: 01/25/24 13:00

Matrix: Solid

Date Received: 01/25/24 15:49

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
o-Xylene	<0.00200	U *	0.00200	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
Xylenes, Total	<0.00399	U *	0.00399	mg/Kg		02/05/24 14:05	02/08/24 00:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			02/08/24 14:08	02/09/24 00:24	1
1:4-, Difluorobenzene (Surr)	74		70 - 130			02/08/24 14:08	02/09/24 00:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/08/24 00:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/05/24 17:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U *1	50.0	mg/Kg		01/30/24 11:32	02/05/24 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Cerhcent l	212	S1T	70 - 130			01/30/24 11:52	02/08/24 17:52	1
1-p clorooy@ne	197	S1T	70 - 130			01/30/24 11:52	02/08/24 17:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.03	mg/Kg			01/31/24 20:15	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: SW11

Lab Sample ID: 890-6038-5

Date Collected: 01/25/24 13:20

Matrix: Solid

Date Received: 01/25/24 15:49

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 00:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 00:44	1
Ethylbenzene	<0.00201	U **	0.00201	mg/Kg		02/05/24 14:05	02/08/24 00:44	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		02/05/24 14:05	02/08/24 00:44	1
o-Xylene	<0.00201	U **	0.00201	mg/Kg		02/05/24 14:05	02/08/24 00:44	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		02/05/24 14:05	02/08/24 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	9a		70 - 130	02/08/24 14:08	02/09/24 00:44	1
1,4-Difluorobenzene (Surr)	74		70 - 130	02/08/24 14:08	02/09/24 00:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/08/24 00:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/05/24 18:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U *1	49.9	mg/Kg		01/30/24 11:32	02/05/24 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/30/24 11:32	02/05/24 18:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/30/24 11:32	02/05/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Certhcent l	11a	S1T	70 - 130	01/30/24 11:32	02/08/24 19:07	1
1-p clorooy@ne	147	S1T	70 - 130	01/30/24 11:32	02/08/24 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		5.03	mg/Kg			01/31/24 20:20	1

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Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

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)
890-6038-1	SW10	87	68 S1-
890-6038-1 MS	SW10	116	94
890-6038-1 MSD	SW10	119	90
890-6038-2	FS13A	97	71
890-6038-3	FS12A	86	74
890-6038-4	FS21	83	74
890-6038-5	SW11	89	74
LCS 880-72388/1-A	Lab Control Sample	133 S1+	90
LCSD 880-72388/2-A	Lab Control Sample Dup	123	105
MB 880-72368/5-A	Method Blank	75	78
MB 880-72388/5-A	Method Blank	76	77
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	OTPH1 (70-130)	1CO1 (70-130)
890-6038-1	SW10	139 S1+	121
890-6038-1 MS	SW10	139 S1+	127
890-6038-1 MSD	SW10	146 S1+	128
890-6038-2	FS13A	145 S1+	128
890-6038-3	FS12A	134 S1+	118
890-6038-4	FS21	212 S1+	187 S1+
890-6038-5	SW11	169 S1+	147 S1+
LCS 870-17905/1-A	Lab Control Sample	125	108
LCSD 870-17905/2-A	Lab Control Sample Dup	126	112
MB 870-17905/3-A	Method Blank	128	122
Surrogate Legend			
OTPH = o-Terphenyl			
1CO = 1-Chlorooctane			

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72368/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 72529						Prep Batch: 72368		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		90 - 130			02/07/24 12:04	02/09/24 11:35	1
1,4-Difluorobenzene (Surr)	9:		90 - 130			02/07/24 12:04	02/09/24 11:35	1

Lab Sample ID: MB 880-72388/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 72529						Prep Batch: 72388		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		90 - 130			02/07/24 14:07	02/09/24 23:01	1
1,4-Difluorobenzene (Surr)	99		90 - 130			02/07/24 14:07	02/09/24 23:01	1

Lab Sample ID: LCS 880-72388/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 72529						Prep Batch: 72388		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1175		mg/Kg		117	70 - 130	
Toluene	0.100	0.1154		mg/Kg		115	70 - 130	
Ethylbenzene	0.100	0.1542	*+	mg/Kg		154	70 - 130	
m-Xylene & p-Xylene	0.200	0.2975	*+	mg/Kg		149	70 - 130	
o-Xylene	0.100	0.1450	*+	mg/Kg		145	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	133	S1C	90 - 130					
1,4-Difluorobenzene (Surr)	h0		90 - 130					

Lab Sample ID: LCSD 880-72388/2-A						Client Sample ID: Lab Control Sample Dup		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 72529						Prep Batch: 72388		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	11 35

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

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

Lab Sample ID: LCSD 880-72388/2-A
Matrix: Solid
Analysis Batch: 72529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72388

Analyte	Spike			LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Result	Qualifier				Limits	RPD	
Toluene	0.100	0.1142				mg/Kg		114	70 - 130	1	35
Ethylbenzene	0.100	0.1353	*+			mg/Kg		135	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2586				mg/Kg		129	70 - 130	14	35
o-Xylene	0.100	0.1265				mg/Kg		126	70 - 130	14	35
		LCSD	LCSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		123		90 - 130							
1,4-Difluorobenzene (Surr)		107		90 - 130							

Lab Sample ID: 890-6038-1 MS
Matrix: Solid
Analysis Batch: 72529

Client Sample ID: SW10
Prep Type: Total/NA
Prep Batch: 72388

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00200	U	0.0996	0.08573		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.0996	0.09654		mg/Kg		97	70 - 130		
Ethylbenzene	<0.00200	U *	0.0996	0.1129		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	<0.00401	U *	0.199	0.2151		mg/Kg		108	70 - 130		
o-Xylene	<0.00200	U *	0.0996	0.1044		mg/Kg		105	70 - 130		
		MS	MS								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		115		90 - 130							
1,4-Difluorobenzene (Surr)		h4		90 - 130							

Lab Sample ID: 890-6038-1 MSD
Matrix: Solid
Analysis Batch: 72529

Client Sample ID: SW10
Prep Type: Total/NA
Prep Batch: 72388

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00200	U	0.0990	0.08704		mg/Kg		88	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.09959		mg/Kg		101	70 - 130	3	35
Ethylbenzene	<0.00200	U *	0.0990	0.1186		mg/Kg		120	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U *	0.198	0.2248		mg/Kg		114	70 - 130	4	35
o-Xylene	<0.00200	U *	0.0990	0.1095		mg/Kg		111	70 - 130	5	35
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		11h		90 - 130							
1,4-Difluorobenzene (Surr)		h0		90 - 130							

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

Lab Sample ID: MB 870-17905/3-A
Matrix: Solid
Analysis Batch: 17969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17905

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

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

Lab Sample ID: MB 870-17905/3-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 17969						Prep Batch: 17905		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-cert aenTI	12:		90 - 130			01/30/24 11:32	02/07/24 17:43	1
1-p alorooy@ne	122		90 - 130			01/30/24 11:32	02/07/24 17:43	1

Lab Sample ID: LCS 870-17905/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 17969						Prep Batch: 17905		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)		1020	1174		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)		1010	1217		mg/Kg		120	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-cert aenTI	127		90 - 130					
1-p alorooy@ne	10:		90 - 130					

Lab Sample ID: LCSD 870-17905/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 17969						Prep Batch: 17905				
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)		1020	906.0	*1	mg/Kg		89	70 - 130	26	20
Diesel Range Organics (Over C10-C28)		1010	1213		mg/Kg		120	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
o-cert aenTI	125		90 - 130							
1-p alorooy@ne	112		90 - 130							

Lab Sample ID: 890-6038-1 MS						Client Sample ID: SW10				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 17969						Prep Batch: 17905				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)	<49.9	U *1 F1	1020	1169		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	55.5	F1 F2	1010	1263		mg/Kg		119	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
o-cert aenTI	13h	S1C	90 - 130							
1-p alorooy@ne	129		90 - 130							

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

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

Lab Sample ID: 890-6038-1 MSD										Client Sample ID: SW10		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 17969										Prep Batch: 17905		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (GRO)	<49.9	U *1 F1	1020	<50.2	U F1	mg/Kg		0	70 - 130	NC	20	
Diesel Range Organics (Over C10-C28)	55.5	F1 F2	1010	<50.2	U F1 F2	mg/Kg		-2	70 - 130	190	20	
Surrogate	MSD %Recovery	MSD Qualifier	Limits									
o-cert aenTl	145	S1C	90 - 130									
1-p aloroooy@ne	12:		90 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71874/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Soluble		
Analysis Batch: 72020									
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			01/31/24 18:17	1	

Lab Sample ID: LCS 880-71874/2-A										Client Sample ID: Lab Control Sample		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72020												
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	246.9		mg/Kg		99	90 - 110			

Lab Sample ID: LCSD 880-71874/3-A										Client Sample ID: Lab Control Sample Dup		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72020												
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride			250	248.1		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 890-6038-1 MS										Client Sample ID: SW10		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72020												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	114		250	363.5		mg/Kg		100	90 - 110			

Lab Sample ID: 890-6038-1 MSD										Client Sample ID: SW10		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72020												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	114		250	362.5		mg/Kg		99	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

GC VOA

Prep Batch: 6915L

bal Sample ID	Client Sample ID	Prep Myp	x atrid	x etho8	Prep Batch
MB 880-72368/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 691LL

bal Sample ID	Client Sample ID	Prep Myp	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	5035	
890-6038-2	FS13A	Total/NA	Solid	5035	
890-6038-3	FS12A	Total/NA	Solid	5035	
890-6038-4	FS21	Total/NA	Solid	5035	
890-6038-5	SW11	Total/NA	Solid	5035	
MB 880-72388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6038-1 MS	SW10	Total/NA	Solid	5035	
890-6038-1 MSD	SW10	Total/NA	Solid	5035	

Analysis Batch: 69790

bal Sample ID	Client Sample ID	Prep Myp	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	8021B	72388
890-6038-2	FS13A	Total/NA	Solid	8021B	72388
890-6038-3	FS12A	Total/NA	Solid	8021B	72388
890-6038-4	FS21	Total/NA	Solid	8021B	72388
890-6038-5	SW11	Total/NA	Solid	8021B	72388
MB 880-72368/5-A	Method Blank	Total/NA	Solid	8021B	72368
MB 880-72388/5-A	Method Blank	Total/NA	Solid	8021B	72388
LCS 880-72388/1-A	Lab Control Sample	Total/NA	Solid	8021B	72388
LCSD 880-72388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72388
890-6038-1 MS	SW10	Total/NA	Solid	8021B	72388
890-6038-1 MSD	SW10	Total/NA	Solid	8021B	72388

Analysis Batch: 695L9

bal Sample ID	Client Sample ID	Prep Myp	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	Total BTEX	
890-6038-2	FS13A	Total/NA	Solid	Total BTEX	
890-6038-3	FS12A	Total/NA	Solid	Total BTEX	
890-6038-4	FS21	Total/NA	Solid	Total BTEX	
890-6038-5	SW11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46027

bal Sample ID	Client Sample ID	Prep Myp	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	8015NM Prep	
890-6038-2	FS13A	Total/NA	Solid	8015NM Prep	
890-6038-3	FS12A	Total/NA	Solid	8015NM Prep	
890-6038-4	FS21	Total/NA	Solid	8015NM Prep	
890-6038-5	SW11	Total/NA	Solid	8015NM Prep	
MB 870-17905/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17905/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17905/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6038-1 MS	SW10	Total/NA	Solid	8015NM Prep	
890-6038-1 MSD	SW10	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

GC Semi VOA

Analysis Batch: 46050

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	8015B NM	17905
890-6038-2	FS13A	Total/NA	Solid	8015B NM	17905
890-6038-3	FS12A	Total/NA	Solid	8015B NM	17905
890-6038-4	FS21	Total/NA	Solid	8015B NM	17905
890-6038-5	SW11	Total/NA	Solid	8015B NM	17905
MB 870-17905/3-A	Method Blank	Total/NA	Solid	8015B NM	17905
LCS 870-17905/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17905
LCSD 870-17905/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17905
890-6038-1 MS	SW10	Total/NA	Solid	8015B NM	17905
890-6038-1 MSD	SW10	Total/NA	Solid	8015B NM	17905

Analysis Batch: 460L4

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Total/NA	Solid	8015 NM	
890-6038-2	FS13A	Total/NA	Solid	8015 NM	
890-6038-3	FS12A	Total/NA	Solid	8015 NM	
890-6038-4	FS21	Total/NA	Solid	8015 NM	
890-6038-5	SW11	Total/NA	Solid	8015 NM	

3 PbCHC

beach Batch: 64L6/

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Soluble	Solid	DI Leach	
890-6038-2	FS13A	Soluble	Solid	DI Leach	
890-6038-3	FS12A	Soluble	Solid	DI Leach	
890-6038-4	FS21	Soluble	Solid	DI Leach	
890-6038-5	SW11	Soluble	Solid	DI Leach	
MB 880-71874/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71874/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71874/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6038-1 MS	SW10	Soluble	Solid	DI Leach	
890-6038-1 MSD	SW10	Soluble	Solid	DI Leach	

Analysis Batch: 69292

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho8	Prep Batch
890-6038-1	SW10	Soluble	Solid	300.0	71874
890-6038-2	FS13A	Soluble	Solid	300.0	71874
890-6038-3	FS12A	Soluble	Solid	300.0	71874
890-6038-4	FS21	Soluble	Solid	300.0	71874
890-6038-5	SW11	Soluble	Solid	300.0	71874
MB 880-71874/1-A	Method Blank	Soluble	Solid	300.0	71874
LCS 880-71874/2-A	Lab Control Sample	Soluble	Solid	300.0	71874
LCSD 880-71874/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71874
890-6038-1 MS	SW10	Soluble	Solid	300.0	71874
890-6038-1 MSD	SW10	Soluble	Solid	300.0	71874

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: SF 01
Date Collectex: 10d/ d3 19:11
Date Receivex: 10d/ d3 0/ :39

Lab Sample ID: 891-5148-0
6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/07/24 23:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72682	02/07/24 23:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			17981	02/05/24 16:03	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 16:03	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71874	01/29/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1			72020	01/31/24 19:41	CH	EET MID

Client Sample ID: NS04A
Date Collectex: 10d/ d3 00:41
Date Receivex: 10d/ d3 0/ :39

Lab Sample ID: 891-5148-2
6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/07/24 23:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72682	02/07/24 23:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			17981	02/05/24 17:05	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 17:05	WP	EET DAL
Soluble	Leach	DI Leach			4.99 g	50 mL	71874	01/29/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1			72020	01/31/24 19:55	CH	EET MID

Client Sample ID: NS02A
Date Collectex: 10d/ d3 02:41
Date Receivex: 10d/ d3 0/ :39

Lab Sample ID: 891-5148-4
6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 00:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72682	02/08/24 00:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			17981	02/05/24 17:26	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 17:26	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71874	01/29/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1			72020	01/31/24 20:00	CH	EET MID

Client Sample ID: NS20
Date Collectex: 10d/ d3 04:11
Date Receivex: 10d/ d3 0/ :39

Lab Sample ID: 891-5148-3
6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 00:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72682	02/08/24 00:24	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Client Sample ID: NS20

Date Collectex: 10/2/ 23 04:11

Date Receivex: 10/2/ 23 0/ :39

Lab Sample ID: 891-5148-3

6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17981	02/05/24 17:46	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 17:46	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71874	01/29/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	72020	01/31/24 20:15	CH	EET MID

Client Sample ID: SF 00

Date Collectex: 10/2/ 23 04:21

Date Receivex: 10/2/ 23 0/ :39

Lab Sample ID: 891-5148-/

6 atriM Solix

Prep Type	Batch Type	Batch 6 ethox	Run	Dil Nactor	Initial Amount	Ninal Amount	Batch Wumber	Preparex or Analyzex	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 00:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72682	02/08/24 00:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			17981	02/05/24 18:07	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 18:07	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71874	01/29/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1			72020	01/31/24 20:20	CH	EET MID

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Laboratory: Eurofins Mallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

Laboratory: Eurofins Didland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: PLU PC 17 Battery

Job ID: 890-6038-1
SDG: 03C1558215

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6038-1	SW10	Solid	01/25/24 09:00	01/25/24 15:49
890-6038-2	FS13A	Solid	01/25/24 11:30	01/25/24 15:49
890-6038-3	FS12A	Solid	01/25/24 12:30	01/25/24 15:49
890-6038-4	FS21	Solid	01/25/24 13:00	01/25/24 15:49
890-6038-5	SW11	Solid	01/25/24 13:20	01/25/24 15:49

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Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

6038

www.xenco.com Page 1 of 1

Project Manager: Ben Bell
Company Name: Ensolum, LLC
Address: 3122 National Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: (989) 854-0852
Email: Garrett.Green@ExxonMobil.com

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

Bill to: (if different)
Company Name: Garrett Green
Address: XTO Energy
3104 E. Greentree St
Carlsbad, NM 88220
City, State ZIP: Carlsbad, NM 88220
Email: Garrett.Green@ExxonMobil.com

Turn Around: ☒ Routine ☐ Rush
Due Date: 5 days
TAT starts the day received by the lab, if received by 4:30pm

Sampler's Name: Mariaha O'Dell

Temp Blank: ☒ Yes ☐ No
Thermometer ID: T11111111
Cooler Custody Seals: Yes ☒ No ☐ N/A
Correction Factor: -0.2
Sample Custody Seals: Yes ☒ No ☐ N/A
Temperature Reading: 5.0
Corrected Temperature: 4.8

ANALYSIS REQUEST										Preservative Codes	
Parameters										None: NO	
Pres. Code										DI Water: H ₂ O	
Grab/Comp										Cool: Cool	
Depth										HCL: HC	
Time Sampled										H ₂ SO ₄ : H ₂	
Date Sampled										H ₃ PO ₄ : HP	
Matrix										NaHSO ₄ : NABIS	
Sample Identification										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
										Sample Comments	
SW10	S	1/25/24	0:00	0-3'	C	1	X	X	X	INCIDENT #:	
FS13A	S	11:30	4'	4'	↓	↓	↓	↓	↓	NAPP223301515TH	
FS12A	S	12:30	4'	4'	↓	↓	↓	↓	↓	COST CENTER:	
FS21	S	13:00	4'	4'	↓	↓	↓	↓	↓	1081001001	
SW11	S	13:20	0-4'	0-4'	↓	↓	↓	↓	↓	Ben Bell:	
										bbell@ensolum.com	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Ph. O'Dell	Received by: (Signature) adn	Date/Time 15:49 1/25

Revised Date: 08/25/2020 Rev. 2003.2

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)											
Client Contact:		Sampler:	Lab P/N:	Carrier / Tracking No(s):							
Shipping/Receiving		Phone:	E-Mail:	Kramer, Jessica							
Company:				Jessica.Kramer@eurofins.com	State of Origin: New Mexico						
Eurofins Environment Testing South Cent				Accreditations Required (See note): NELAP - Texas							
Address:		Due Date Requested:		COC No:							
9701 Harry Hines Blvd.		1/31/2024		890-9107-1							
City:		TAT Requested (days):		Page:							
Dallas				Page 1 of 1							
State, Zip:				Job #:							
TX, 75220				890-6038-1							
Phone:		PO #:		Preservation Codes:							
214-902-0300(Tel)				A-HCL B-NaOH N-None O-AsnAO2 C-Zn Acetate D-Nitric Acid E-NaHSO4 F-MeOH G-Archlor H-Ascorbic Acid I-Ice J-DI Water K-EFTA L-EDA M-Hexane P-Na2CO3 Q-Na2SO3 R-Na2S2O3 S-H2SO4 T-TSP Dodecahydrate U-Acetone V-MCAA W-pH 4.5 Y-Trizma Z-other (specify) Other:							
Email:		WO #:									
Project Name:		Project #:									
PLU PC 17 Battery		89000093									
Site:		SSOW#:									
Sample Identification - Client ID (Lab ID)											
SW/10 (890-6038-1)		1/25/24	09:00	Mountain	Solid	X	X	X	1	Total Number of containers	Special Instructions/Note:
FS13A (890-6038-2)		1/25/24	11:30	Mountain	Solid	X	X	X	1		
FS12A (890-6038-3)		1/25/24	12:30	Mountain	Solid	X	X	X	1		
FS21 (890-6038-4)		1/25/24	13:00	Mountain	Solid	X	X	X	1		
SW/11 (890-6038-5)		1/25/24	13:20	Mountain	Solid	X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/method/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2											
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:						
Relinquished by:		Date/Time:	Received by:		Date/Time:						
Relinquished by:		Date/Time:	Received by:		Date/Time:						
Custody Seals Intact:		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:								
Δ Yes Δ No											

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Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No						
Client Contact:		Phone	Kramer Jessica		890-2339 1						
Shipping/Receiving			E-Mail: Jessica.Kramer@el.eurofins.com	State of Origin	Page: 1 of 1						
Company: Eurofins Environment Testing South Cent			Accreditations Required (See note)	New Mexico	Page 1 of 1						
Address: 1211 W Florida Ave		Due Date Requested	NE LAP - Texas	Job #	890-6038-1						
City: Midland		TAT Requested (day/s)	Analysis Requested								
State Zip: TX 79701											
Phone: 432-704-5440(Tel)		PO #:									
Email: WFO #:											
Project Name: plu p 17 battery		Project #:									
Site: SSONV#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=soil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note.		
SW10 (890-6038-1)	1/25/24	09 00	Mountain	Solid		X	X	X	X	1	
FS13A (890-6038-2)	1/25/24	11 30	Mountain	Solid		X	X	X	X	1	
FS12A (890-6038-3)	1/25/24	12 30	Mountain	Solid		X	X	X	X	1	
FS21 (890-6038-4)	1/25/24	13 00	Mountain	Solid		X	X	X	X	1	
SW11 (890-6038-5)	1/25/24	13 20	Mountain	Solid		X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2 Special Instructions/QAC Requirements											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Return To Client Disposal By Lab Archive For Months											
Empty Kit Relinquished by											
Relinquished by Date/Time: Company Received by Date/Time: Company											
Relinquished by Date/Time: Company Received by Date/Time: Company											
Relinquished by Date/Time: Company Received by Date/Time: Company											
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks.											
Δ Yes Δ No											

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5048-6

1SD Number: 04C6G336G

Login Number: 6038

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
2Te hoolers husto' d seylai, f resentaits intyhtp	2rue	
1ymf le husto' d seylsai, f resentayre intyhtp	2rue	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resen tp	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytionp	2rue	
g tTe l iel' 1ymf lers nyme f resen on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	Ny	Ae,er to Job Nyrryti. e ,or ' etyilsp
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	Ny	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlp ynd reVueste' q 1)q 1 Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z5mm h6)<"xp	Ny	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5048-6

1SD Number: 04C6G336G

Login Number: 6038
List Number: 3
Creator: Thompson, Christopher

List Source: Eurofins Dallas
List Creation: 02/03/24 01:45 PM

Question	Answer	Comment
2Te hoolers husto' d seylai, f resentaits intyhtp	Ny	
1ymf le husto' d seylsai, f resentayre intyhtp	Ny	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resenp	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytionp	2rue	
g tTe l iel' 1ymf lers nyme f resen on CwCF	Ny	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	2rue	
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	2rue	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpyn d reVueste' q 1)q 1Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z5mm h6)"xp	2rue	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5048-6

1SD Number: 04C6G336G

Login Number: 6038
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 01/29/24 08:46 AM

Question	Answer	Comment
2Te hoolers husto' d seylai, f resentaits intyhtp	2rue	
1ymf le husto' d seylsai, f resentayre intyhtp	2rue	
2Te hooler or symf les ' o not yf f eyr to Ty. e been homf romise' or tymf ere' v itTp	2rue	
1ymf les v ere rehei. e' on ihep	2rue	
Cooler 2emf eryture is yhhf tyblep	2rue	
Cooler 2emf eryture is rehor' e' p	2rue	
CwC is f resent	2rue	
CwC is ,ille' out in inOyn' lekiblep	2rue	
CwC is ,ille' out v itT yll f ertinent in,ormytion	2rue	
g tTe l iel' 1ymf lers nyme f resent on CwCF	2rue	
2Tere yre no ' ishref ynhies betv een tTe hontyiners rehei. e' yn' tTe CwCp	2rue	
1ymf les yre rehei. e' v itTin ? ol' ink 2ime h(hlu' ink tests v itT imme' iyte ? 2sx	2rue	
1ymf le hontyiners Ty. e lekible lybelsp	2rue	
Contyiners yre not broQen or leyQnkp	2rue	
1ymf le hollehtion ' yte)times yre f ro. i' e' p	2rue	
/ f f rof riyte symf le hontyiners yre use' p	2rue	
1ymf le bottles yre homf leteld ,ille' p	2rue	
1ymf le Rreser. ytion Peri,ie' p	2rue	
2Tere is su,,ihient . olp,or yll reVueste' ynyldsesainhlpynd reVueste' q 1)q 1Ss	2rue	
Contyiners reVuirink Mro Tey' sf yhe Ty. e no Tey' sf yhe or bubble is z5mm h6)<"xp	NY	



APPENDIX E

NMOCD Notifications

Green, Garrett J

From: Green, Garrett J
Sent: Thursday, December 1, 2022 11:38 AM
To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: DelawareSpills /SM
Subject: XTO 24 Hour Notification - Pierce Canyon 17 Battery - Released:11/30/22

Follow Up Flag: Follow up
Flag Status: Completed

All,

This is notification of a release greater than 25 barrels that occurred yesterday at the Pierce Canyon 17 Battery near the GPS coordinates given below. Most of the fluids remained in containment and all standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.12423,-103.89587

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: [Green, Garrett J](#)
To: [Tacoma Morrissey](#); [Ben Belill](#)
Subject: Fwd: [EXTERNAL] XTO - 48-Hour Liner Inspection Notification - Pierce Canyon 17 Tank Battery - Incident Number nAPP2233951574
Date: Friday, May 12, 2023 6:51:12 PM

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

From: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Date: May 12, 2023 at 4:07:00 PM MDT
To: "Green, Garrett J" <garrett.green@exxonmobil.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - 48-Hour Liner Inspection Notification - Pierce Canyon 17 Tank Battery - Incident Number nAPP2233951574

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Friday, May 12, 2023 1:23 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Ben Belill <bbelill@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - 48-Hour Liner Inspection Notification - Pierce Canyon 17 Tank Battery - Incident Number nAPP2233951574

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

This is sent as a 48-hour notification, XTO is scheduled to inspect the following lined containment listed below on Tuesday, May 16, 2023. Please call us with any questions or concerns.

Site: PLU PC 17 BATTERY
Incident Number: nAPP2233951574
Time: 1:30 pm MST
GPS Coordinates: (32.12406, -103.89609)

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: [Green, Garrett J](#)
To: [Tacoma Morrissey](#); [Ben Belill](#)
Subject: Fwd: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)
Date: Friday, May 12, 2023 5:50:39 PM

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

From: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Date: May 12, 2023 at 4:02:13 PM MDT
To: "Green, Garrett J" <garrett.green@exxonmobil.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. When sampling at multiple sites, a more detailed schedule of days at each site should be provide. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, May 11, 2023 11:04 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of May 15, 2023.

Monday

- Ross Draw 3031/ nAPP2227244441 & NAPP2300442748

Tuesday

- Ross Draw 3031/ nAPP2227244441 and NAPP2300442748
- Outrider Fed 28 Pad B / NAPP2306936047

Wednesday

- Outrider Fed 28 Pad B / NAPP2306936047

Thursday

- Outrider Fed 28 Pad B / NAPP2306936047
- PLU PC 17 BATTERY/ nAPP2233951574

Friday

- Sizzler 2H / NMAP1822337753
- PLU PC 17 BATTERY/ nAPP2233951574
- JRU 108 / nAPP2217931599

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



February 15, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Pierce Canyon 17 Tank Battery
Incident Number NAPP2233951574
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Deferral Request* to document excavation and soil sampling activities completed to address impacted soil at the Pierce Canyon 17 Tank Battery (Site). The purpose of the excavation and soil sampling activities, in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacts to soil resulting from a release of crude oil at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing remediation that has occurred and requesting deferral of final remediation until pad abandonment or major facility reconstruction for Incident Number NAPP2233951574.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.12406°, -103.89609°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 30, 2022, the lease automatic custody transfer (LACT) unit failed, causing the crude oil tanks to overflow, resulting in the release of 299.82 barrels (bbls) of crude oil into the lined containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free standing fluids and approximately 294 bbls of fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on December 1, 2022, and submitted a Release Notification Form C-141 (Form C-141) on December 5, 2022. The release was assigned Incident Number NAPP2233951574.

Between April and May of 2023, Ensolum personnel were onsite to complete Site assessment, delineation, and an inspection of the lined containment. Delineation activities identified impacted and waste-containing soil within the release extent and underneath the lined containment. On June 6, 2023, Ensolum submitted a *Work Plan* to the NMOCD proposing to confirm depth to water, excavate impacted soil, and request a variance for frequency of confirmation sampling. Delineation analytical results and soil sample locations can be found in Table 1 and on Figures 2 and 3, respectively. Additional information can be referenced in the *Work Plan* on the NMOCD web portal.

XTO Energy
Deferral Request
Pierce Canyon 17 Tank Battery

Approval of the *Work Plan* was received from the NMOCD on November 17, 2023, with the following conditions:

- *The liner will need to be pulled up and the release underneath the liner will need to be horizontally delineated,*
- *Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 New Mexico Administrative Code (NMAC),*
- *A variance for 500 square feet confirmation samples,*
- *Sidewall samples should be delineated or excavated to chloride concentrations less than 600 mg/kg and less than 100 mg/kg for total petroleum hydrocarbons (TPH),*
- *All off pad areas must contain a minimum of 4 feet of non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH,*
- *The work will need to occur in 90 days after the work plan has been approved.*

The following *Deferral Request* summarizes the implementation of the *Work Plan*.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply as presented in the approved *Work Plan*:

- 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

In accordance with the *Work Plan* and in an effort to confirm depth to groundwater in the region, Ensolum personnel oversaw installation of a soil boring within 0.5 miles of the Site utilizing a truck-mounted air rotary rig on August 8, 2023. The soil boring (C-04758) was permitted by the New Mexico Office of the State Engineer (NMOSE) and was advanced to a depth of 110 feet below ground surface (bgs). An Ensolum geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole's lithologic/ soil sampling log is included in Appendix A. The location of the borehole is approximately 0.05 miles southwest of the Site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of

XTO Energy
Deferral Request
Pierce Canyon 17 Tank Battery

groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to groundwater greater than 100 feet bgs, the Table I Closure Criteria assigned in the *Work Plan* are applicable and appropriate for protection of groundwater at this Site.

DELINEATION SOIL SAMPLING ACTIVITIES

Between December 18, 2023 and January 24, 2024, Ensolum personnel returned to the Site to oversee additional delineation and excavation activities.

Borehole BH01, located inside the lined containment, was vertically delineated to the Closure Criteria. Additional delineation inside the active tank battery was requested in the conditions of the approval; however, due to active production equipment and the major facility deconstruction required to reach areas inside the containment, delineation potholes PH06 through PH10 were collected as close to borehole BH01 as feasibly and safely possible. Potholes PH06 through PH10, surrounding the containment, were advanced via backhoe to maximum depths of 3 feet and 4 feet bgs. The delineation soil sample locations are presented on Figure 2, and the excavation extent and excavation soil sample locations are presented on Figure 3. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons (VOCs) and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log and are included as Appendix B.

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

Laboratory analytical results for delineation soil samples in April and May of 2023 indicated soil with COC concentrations exceeding the Closure Criteria and reclamation requirement existed at the Site. All additional delineation soil samples PH06 through PH10 indicated all COC concentrations are compliant with the Closure Criteria. Delineation soil samples PH06 through PH08, located to the north and east of the active containment, provide lateral delineation to the reclamation requirement. Delineation soil samples PH09 and PH10 indicated the presence of waste containing soil adjacent to the active lined containment. Laboratory analytical results for borehole BH01 indicate TPH-impacted soil exists beneath the active, lined containment to a maximum depth of 2 feet bgs.

EXCAVATION SOIL SAMPLING ACTIVITIES

Impacted and waste-containing soil was excavated from the release area as indicated by visibly stained soil and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a track-mounted backhoe, a hydrovac, and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 3 feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

XTO Energy
Deferral Request
Pierce Canyon 17 Tank Battery

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 500 square feet from the floor and sidewalls of the excavation in accordance with the approved *Work Plan*. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were handled as described above at Eurofins in Carlsbad, New Mexico

Composite floor samples FS01 through FS21 were collected from the floor of the excavation at depths ranging from 3 feet bgs to 4 feet bgs. Composite sidewall samples SW01 through SW11 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. Additional excavation was conducted in the areas represented by FS12, FS13, and SW08 following review of laboratory analytical results. Additional 5-point composite confirmation samples, designated with an "A" (e.g. FS12A) were collected in the respective areas. The composite confirmation sample collected in the area of SW08 was identified as SW10. All confirmation soil sample locations and the final excavation extent are depicted on Figure 3.

Laboratory analytical results for all final confirmation soil samples indicated all COC concentrations are compliant with the Table I Closure Criteria and reclamation requirement where applicable.

The excavation area measured approximately 9,395 square feet. A total of approximately 1,045 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

Impacted soil exists in the area of BH01 beneath the active lined containment. A maximum of 575 cubic yards of impacted soil remains in place beneath the active, lined containment based on a maximum depth of 2 feet. The impacted soil is vertically delineated to the Closure Criteria by BH01A at 2 feet bgs and horizontally delineated to the reclamation requirement by delineation soil samples PH06 through PH08, SS06, and SS10 through SS12. Waste containing soil exists in the area of PH10 at 3 feet bgs. The soil cannot be removed due to the proximity to active production equipment. A maximum of 370 cubic yards of waste containing soil exists in the vicinity of PH10 and beneath the active, lined containment but is delineated to the reclamation requirement by PH09 at 4 feet bgs, SS06, PH06 through PH08, and SS10 through SS12. The areas of impacted and waste-containing soil to be deferred and the associated delineation soil samples are depicted in Figure 4.

DEFERRAL REQUEST

Additional remedial actions were conducted at the Site as prescribed in the *Work Plan*. Newly collected discrete samples completed vertical and lateral delineation of the release and excavation activities were conducted to remove impacted and waste-containing soil to the maximum extent practicable (MEP) without compromising the stability of active production equipment and worker safety. All results from confirmation samples collected from the new excavation were in compliance with Closure Criteria.

XTO has made every effort to remove all impacted and waste-containing soil. Complete lateral and vertical delineation of impacted and waste-containing soil remaining in place has been documented. XTO does not believe deferment of the remaining 945 cubic yards of soil will result in imminent risk to human health, the environment, or groundwater and the impacted soil remaining in place is limited in areal and vertical extent. XTO believes leaving impacted soil underneath the lined containment until the production well is plugged and abandoned and the well pad is reclaimed or any major pad reconstruction actions will be equally protective since depth to groundwater is greater than 100 feet bgs and the liner will prevent interactions with wildlife and the public. As such, XTO requests deferral of final remediation

XTO Energy
Deferral Request
Pierce Canyon 17 Tank Battery

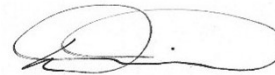
for Incident Number NAPP2233951574 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,
Ensolum, LLC



Meredith Roberts
Staff Geologist



Daniel R. Moir, PG
Senior Managing Geologist

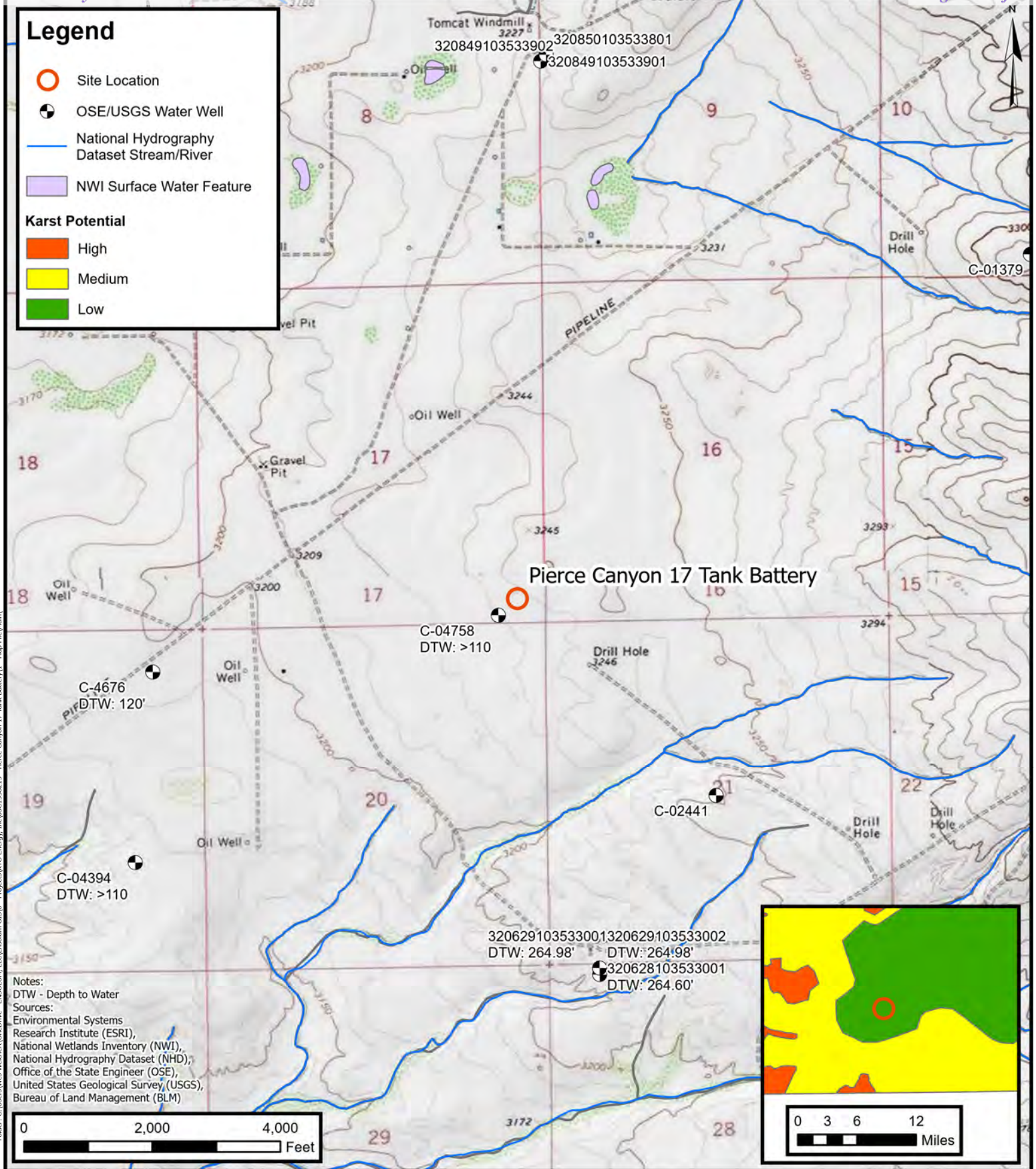
cc: Garrett Green, XTO
Tommee Lambert, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral 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

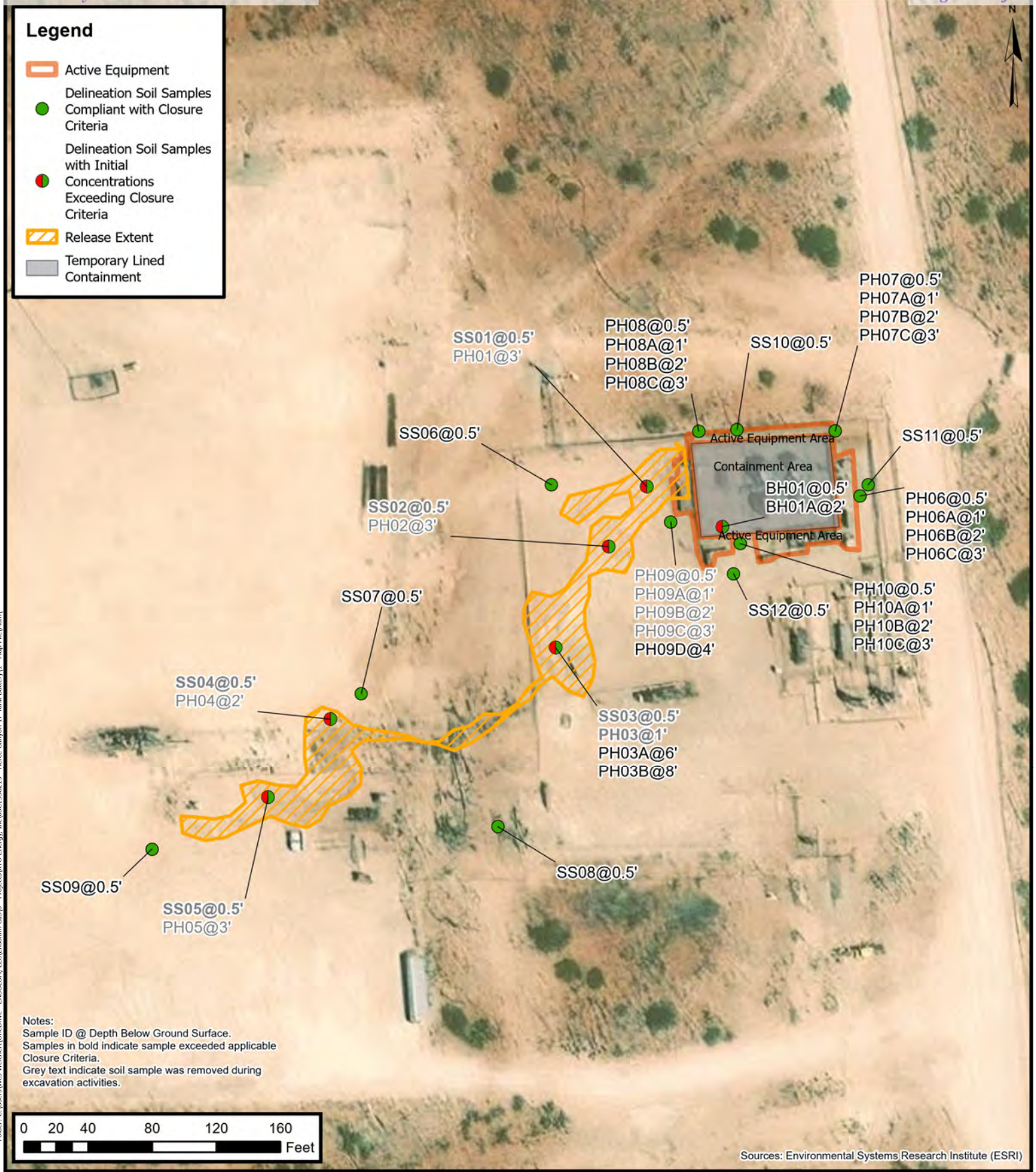


FIGURES



Site Receptor Map
XTO Energy, Inc
Pierce Canyon 17 Tank Battery
Incident Number: NAPP2233951574
Unit P, Sec 17, T25S, R30E
Eddy Co, New Mexico, United States

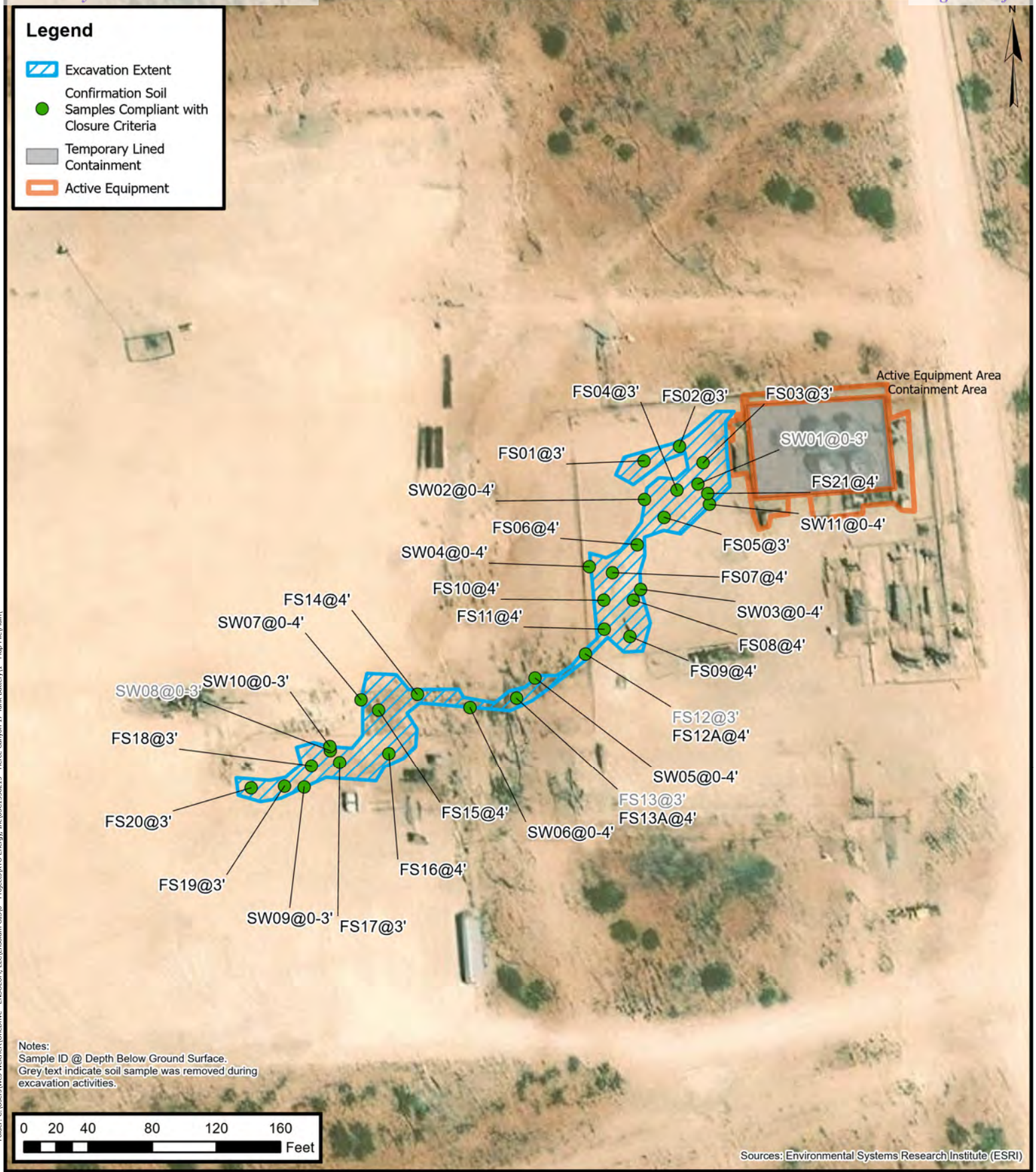
FIGURE
1



Delineation Soil Sample Locations

XTO Energy, Inc
Pierce Canyon 17 Tank Battery
Incident Number: NAPP2233951574
Unit P, Sec 17, T25S, R30E
Eddy Co, New Mexico, United States

FIGURE
2

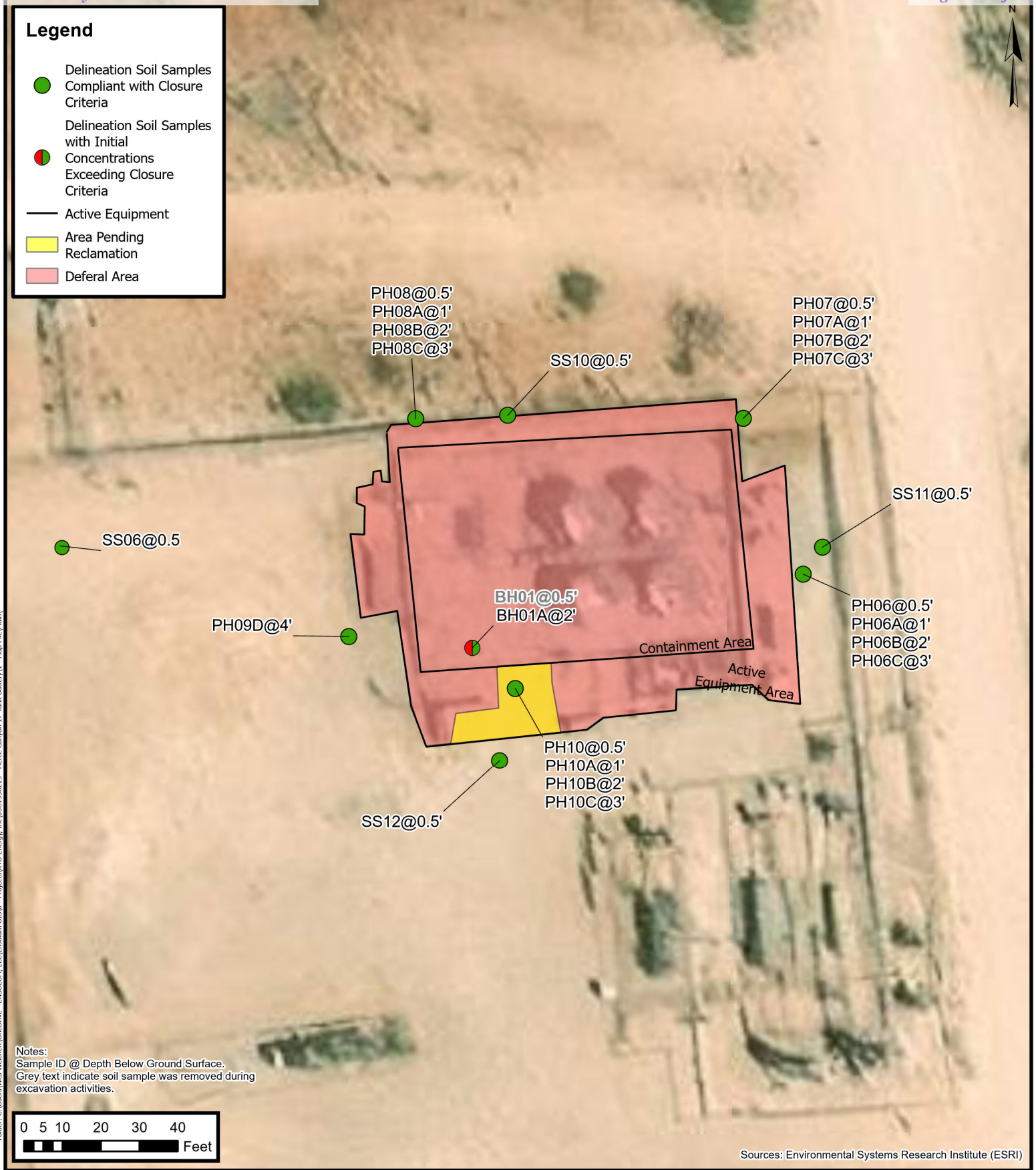


Excavation Soil Sample Locations

XTO Energy, Inc
Pierce Canyon 17 Tank Battery
Incident Number: NAPP2233951574
Unit P, Sec 17, T25S, R30E
Eddy Co, New Mexico, United States

FIGURE

3



Deferral Soil Sample Locations

XTO Energy, Inc
Pierce Canyon 17 Tank Battery
Incident Number: NAPP2233951574
Unit P, Sec 17, T25S, R30E
Eddy Co, New Mexico, United States

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Pierce Canyon 17 Tank Battery
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	04/26/2023	0.5	<0.00202	0.249	262	4,220	<50.0	4,480	4,480	137
PH01	05/15/2023	3	<0.00199	<0.00398	<49.8	54.6	<49.8	54.6	54.6	525
SS02	04/26/2023	0.5	<0.00200	0.0346	137	5,340	<49.8	5,480	5,480	480
PH02	05/15/2023	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	323
SS03	04/26/2023	0.5	0.0387	9.73	373	3,520	<49.9	3,890	3,890	78.3
PH03	05/15/2023	1	<0.00998	5.76	649	1,030	66.5	1,680	1,750	122
PH03A	05/15/2023	6	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	749
PH03B	05/15/2023	8	NA	NA	<49.8	<49.8	<49.8	<49.8	<49.8	238
SS04	04/26/2023	0.5	<0.00200	0.859	615	3,360	<50.0	3,980	3,980	76.9
PH04	05/16/2023	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	64.6
SS05	04/26/2023	0.5	<0.00199	0.0278	662	3,920	<49.8	4,580	4,580	78.0
PH05	05/16/2023	3	<0.00199	<0.00398	<49.9	55.8	<49.9	55.8	55.8	142
SS06	04/26/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	92.0
SS07	04/26/2023	0.5	<0.00201	<0.00402	<49.9	51.1	<49.9	51.1	51.1	80.6
SS08	04/26/2023	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	341
SS09	04/26/2023	0.5	0.00447	0.232	<49.9	<49.9	<49.9	<49.9	<49.9	319
SS10	05/16/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	64.6
SS11	05/16/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	65.5
SS12	05/16/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	71.4
BH01	05/16/2023	0.5	0.484	19.3	795	2,850	<49.9	3,650	3,650	406
BH01A	05/16/2023	2	<0.0398	0.131	<50.0	207	<50.0	207	207	518
PH06	01/24/2024	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	27.8
PH06A	01/24/2024	1	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	9.64
PH06B	01/24/2024	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	23.3
PH06C	01/24/2024	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	21.8
PH07	01/24/2024	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	13.3
PH07A	01/24/2024	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	6.92
PH07B	01/24/2024	2	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	39.7
PH07C	01/24/2024	3	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	<50.4	140
PH08	01/24/2024	0.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	7.78
PH08A	01/24/2024	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	28.6
PH08B	01/24/2024	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	151
PH08C	01/24/2024	3	<0.00200	<0.00401	<49.7	62.7	<49.7	62.7	62.7	33.5
PH09	01/24/2024	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,220
PH09A	01/24/2024	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	1,790
PH09B	01/24/2024	2	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	1,290
PH09C	01/24/2024	3	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	1,050
PH09D	01/24/2024	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	310
PH10	01/24/2024	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	326
PH10A	01/24/2024	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	275
PH10B	01/24/2024	2	<0.00200	<0.00401	<49.5	<49.5	<49.5	<49.5	<49.5	324
PH10C	01/24/2024	3	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	1,020
Confirmation Soil Samples										
FS01	12/20/2023	3	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	154
FS02	12/20/2023	3	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	69.5
FS03	12/21/2023	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	112
FS04	12/21/2023	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	315
FS05	12/21/2023	3	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	<50.1	156



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Pierce Canyon 17 Tank Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS06	12/28/2023	4	<0.00201	<0.00402	<49.8	606	<49.8	606	606	164
FS07	12/28/2023	4	<0.00202	<0.00403	<50.5	52.0	<50.5	52.0	52.0	59.8
FS08	12/28/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	12.2
FS09	12/28/2023	4	<0.00198	<0.00397	<49.9	51.2	<49.9	51.2	51.2	118
FS10	12/28/2023	4	<0.00201	<0.00402	<49.9	76.3	<49.9	76.3	76.3	9.07
FS11	12/28/2023	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	9.02
FS12	12/28/2023	3	<0.00200	<0.00401	<50.3	164	<50.3	164	164	41.0
FS12A	01/24/2024	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	80.4
FS13	12/28/2023	3	<0.00200	<0.00399	<50.1	791	<50.1	791	791	172
FS13A	01/24/2024	4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	84.5
FS14	12/28/2023	4	<0.00200	<0.00400	<50.5	74.1	<50.5	74.1	74.1	111
FS15	12/28/2023	4	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	22.9
FS16	12/28/2023	4	<0.00201	<0.00402	<49.7	52.8	<49.7	52.8	52.8	75.0
FS17	12/28/2023	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	124
FS18	12/28/2023	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	53.9
FS19	12/28/2023	3	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	126
FS20	12/28/2023	3	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	84.2
FS21	01/24/2024	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	104
SW01	12/28/2023	0 - 3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	262
SW02	12/28/2023	0 - 4	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	<50.4	18.0
SW03	12/28/2023	0 - 4	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	97.6
SW04	12/28/2023	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.4
SW05	12/28/2023	0 - 4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	7.18
SW06	12/28/2023	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	16.5
SW07	12/28/2023	0 - 4	<0.00201	<0.00402	<50.4	76.2	<50.4	76.2	76.2	179
SW08	12/28/2023	0 - 3	<0.00200	<0.00401	<50.5	156	<50.5	156	156	76.8
SW09	12/28/2023	0 - 3	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	<4.99
SW10	01/24/2024	0 - 3	<0.00200	<0.00401	<49.9	55.5	<49.9	55.5	55.5	114
SW11	01/24/2024	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	285

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

NA: Not Analyzed

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

File No. C-4758

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 7/17/2023	Requested End Date: TBD
---	-------------------------

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: XTO Energy, Inc	Name: Ensolum, LLC
Contact or Agent: ☐ check here if Agent Garrett Green	Contact or Agent: ☒ check here if Agent Benjamin Belill
Mailing Address: 3401 E. Greene Street	Mailing Address: 3122 National Parks Highway
City: Carlsbad	City: Carlsbad
State: ☐ Zip Code: 88220 New Mexico	State: ☐ Zip Code: 88220 New Mexico
Phone: 575-200-0729 ☐ Home ☒ Cell Phone (Work):	Phone: 989-854-0852 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): Garrett.Green@ExxonMobil.com	E-mail (optional): bbelill@ensolum.com

OSE DIT JUL 7 2023 AM 11:35

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No.: C-4758	Trn. No.: 749154	Receipt No.: 245957
Trans Description (optional): MON		
Sub-Basin: CUB	PCW/LOG Due Date: 7-24-24	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.			
☐ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone		☐ UTM (NAD83) (Meters) ☐ Zone 12N ☐ Zone 13N	
☒ Lat/Long (WGS84) (to the nearest 1/10 th of second)			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4758 Pod1 BH01	-103.896478	32.123445	Unit P, S17, T25S, R30E, Eddy County
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____			
Other description relating well to common landmarks, streets, or other: Located on active well pad facility at the the Poker Lake Unit CVX JV RR #010H (32.123445,-103.896478).			
Well is on land owned by: Federal - Bureau of Land Management			
Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No If yes, how many _____			
Approximate depth of well (feet): 110		Outside diameter of well casing (inches): 2	
Driller Name: Scarborough Drilling		Driller License Number: WD-1188	

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One soil boring to be advanced at the site to assess subsurface soil and regional groundwater depth. Temporary 2-inch inside diameter PVC well screen will be placed in open borehole to determine depth to water at the site. The borehole will be abandoned after 72 hours from the time the borehole is completed. The borehole location is depicted on the attached figure.

OSE DTI JUL 7 2023 AM 11:35

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:

C-4758

Trn No.:

749154

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	Construction De-Watering: ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	Mine De-Watering: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Ground Source Heat Pump: ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Benjamin Belill

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Benjamin Belill Digitally signed by Benjamin Belill
Date: 2023.07.06 10:37:13 -04'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 24th day of July 20 23, for the State Engineer,

Mike A. Hamman, P.E.

State Engineer

OSE DIT JUL 7 2023 AM 11:35

By: K. Parekh
Signature

Kashyap Parekh
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4758

Trn No.: 749154

Page 3 of 3

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

page: 1

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04758 POD1 must be completed and the Well Log filed on or before 07/23/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 07/07/2023	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 24 day of Jul A.D., 2023

Mike A. Hamman, P.E., State Engineer

By:

K. Parekh
KASHYAP PAREKH

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMLC064894**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well☐ Gas Well☒ OtherSoil Boring for determination of
depth to groundwater2. Name of Operator **XTO Energy, Inc.**3a. Address **3104 E. Greene Street, Carlsbad, New Mexico,
88220**3b. Phone No. (include area code)
(575) 200-07294. Location of Well (Footage, Sec., T., R., M., or Survey Description)
P-17-25S-30E, Latitude 32.123445, Longitude -103.896478

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **Poker Lake Unit CVX JV RR 010H**9. API Well No. **30-015-42158**10. Field and Pool or Exploratory Area
NA11. Country or Parish, State
Eddy County, New Mexico**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

XTO Energy, Inc. (XTO) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring will be located at the active XTO well pad listed above (32.123445, -103.896478). The soil boring will be left open for approximately 72 hours, to allow for the slow infill of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the site and proposed soil boring location are included with this Form 3160.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Garrett GreenTitle **SSHE Coordinator**

Signature

Date **6/14/2023****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CRISHA MORGANDigitally signed by CRISHA MORGAN
Date: 2023.07.03 12:19:40 -06'00'Title **EPS**Date **07/03/2023**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CFO**

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)

July 3, 2023

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: Poker Lake Unit CVX JV RR 10H
30-015-42158
32.123445, -103.896478
Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time XTO Energy, Inc will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN

Digitally signed by CRISHA
MORGAN
Date: 2023.07.03 12:20:16 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

**PLU PC 17 BATTERY,
PLU PC 17 SWD 1,
PLU CVX JV RR 006H,
PLU-CVX-JV-PC #001H
SWD Line**

32.123445, -103.896478
Surface Owner: BLM

Legend

-  0.5 Mile Radius
-  Proposed Soil Boring
-  Incident Sites
-  XTO Wells

PLU PC 17 SWD 1

Poker Lake Unit CVX JV RR 010H
Well Pad

PLU-CVX-JV-PC #001H SWD Line

PLU PC 17 BATTERY
Proposed Soil Boring

PLU CVX JV RR 006H

Google Earth

Image © 2023 Maxar Technologies

3000 ft

4176147266266

4177147267266

4176148262266

4177148266266

Larry Brotman, Esri, HERE, Garmin, (c) OpenStreetMap contributors, U.S.
Department of Energy Office of Legacy Management

Coordinates**UTM - NAD 83 (m) - Zone 13**

Easting 604097.348

Northing 3554651.284

State Plane - NAD 83 (f) - Zone E

Easting 676579.118

Northing 408917.553

Degrees Minutes Seconds

Latitude 32 : 7 : 24.402000

Longitude -103 : 53 : 47.320800

Location pulled from Coordinate Search

NEW MEXICO OFFICE
OF THE
STATE ENGINEER

1:4,514

ft
0 90 180 360

N



7/24/2023



Responsible efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation. However, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, definition, positional accuracy, nomenclature, and/or other information. These maps are digitized (as is) without warranty of any kind.

Spatial Information

County: Eddy

Groundwater Basin: Carlsbad

Abstract Area: Carlsbad 72-12-1

Land Grant: NoCarlsbad Underground Basin

Restrictions:

NA

PLSS Description

SWSESESE Qtr of Sec 17 of 025S 030E

Derived from CADNSDI- Qtr Sec. locations are
calculated and are only approximations

Parcel Information

UPC/DocNum: 4176147266266

Parcel Owner: Bureau Of Land

Address: Sw Of 1054 Buck Jackson Road
Carlsbad 88220

Legal: Quarter: Ne S: 17 T: 25S R: 30E Quarter: Nw S: 17
T: 25S R: 30E Quarter: Sw S: 17 T: 25S R: 30E
Quarter: Se S: 17 T: 25S R: 30E All Exempt

POD Information

Owner:

File Number:

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose:

☐ Calculated PLSS	☐ Catron County Parcels 2022	☐ Doña Ana County Parcels 2022	☐ Lea County Parcels 2022	☐ Otero County Parcels 2022	☐ San Juan County Parcels 2022	☐ Taos County Parcels 2022
☐ Coord Search Location	☐ Chaves County Parcels 2022	☐ Eddy County Parcels 2022	☐ Lincoln County Parcels 2022	☐ Quay County Parcels 2022	☐ San Miguel County Parcels 2022	☐ Torrance County Parcels 2022
☐ OSE District Boundary	☐ Cibola County Parcels 2022	☐ Harding County Parcels 2022	☐ Los Alamos County Parcels 2022	☐ Rio Arriba County Parcels 2022	☐ Santa Fe County Parcels 2022	☐ Union County Parcels 2022
☐ New Mexico State Trust Lands	☐ Colfax County Parcels 2022	☐ Hidalgo County Parcels 2022	☐ Luna County Parcels 2022	☐ Roosevelt County Parcels 2022	☐ Sierra County Parcels 2022	☐ Valencia County Parcels 2022
☐ Both Estates	☐ Curry County Parcels 2022	☐ Grant County Parcels 2022	☐ McKinley County Parcels 2022	☐ Sandoval County Parcels 2022	☐ Socorro County Parcels 2022	☐ SiteBoundaries
☐ Bernalillo County Parcels 2022	☐ De Baca County Parcels 2022	☐ Guadalupe County Parcels 2022	☐ Mora County Parcels 2022			

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

GARRETT GREEN
XTO ENERGY, INC.
3401 E GREENE ST
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script, reading "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

BENJAMIN BELILL
ENSOLUM, LLC
3122 NATIONAL PARKS HIGHWAY
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script, reading "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: TBD C-4758-POD1
 Name of well owner: XTO Energy Inc
 Mailing address: 3401 E. Greene Street County: Eddy
 City: Carlsbad State: New Mexico Zip code: 88220
 Phone number: 575-200-0729 E-mail: Garrett.Green@ExxonMobil.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Scarborough Drilling Inc
 New Mexico Well Driller License No.: WD-1188 Expiration Date: 3/31/2024

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 7 min, 24.40 sec
 Longitude: 103 deg, 53 min, 47.32 sec, NAD 83

OSE ON JUL 7 2023 AM 11:35

2) Reason(s) for plugging well(s):

Monitoring well to be plugged when no longer needed. Dry borehole will be plugged within 3 days of completion if encountered

3) Was well used for any type of monitoring program? No If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NA If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: NA feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Temporary SCH 40 PVC
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: NA
☐ a well screen or perforated pipe, state the screened interval(s): NA
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Temporary 2 inch well will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged from 0 to 10 feet bgs with hydrated bentonite. If groundwater is encountered, borehole will be plugged, tremie pipe from the bottom upwards to a slurry of Type I/II neat cement.

- 2) Will well head be cut-off below land surface after plugging? YES

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 287 gallons(8 inch borehole)
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
 x mixed on site

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- 7) Grout additives requested, and percent by dry weight relative to cement:

NA

- 8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

NA

VIII. SIGNATURE:

I, Benjamin Belill, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Benjamin Belill

Digitally signed by Benjamin Belill
Date: 2023.07.06 10:36:39 -04'00'

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

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☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 10th day of July, 2023

Mike A. Nannan, P.E., New Mexico State Engineer

By: K. Parekh
KASHYAP PAREKH
W.R.M.I



WD-08 Well Plugging Plan
Version: July 31, 2019
Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	NA	NA	0
Bottom of proposed interval of grout placement (ft bgl)	NA	NA	110
Theoretical volume of grout required per interval (gallons)	NA	NA	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	NA	NA	<6.0
Mixed on-site or batch-mixed and delivered?	NA	NA	onsite
Grout additive 1 requested	NA	NA	NA
Additive 1 percent by dry weight relative to cement	NA	NA	NA
Grout additive 2 requested	NA	NA	NA
Additive 2 percent by dry weight relative to cement	NA	NA	NA

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	NA	NA	0
Bottom of proposed sealant of grout placement (ft bgl)	NA	NA	10
Theoretical volume of sealant required per interval (gallons)	NA	NA	26
Proposed abandonment sealant (manufacturer and trade name)	NA	NA	Bariod Hole Plug

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STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

1900 West Second St.
 Roswell, New Mexico 88201
 Phone: (575) 622-6521
 Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged, Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: XTO Energy Inc.
 NMOSE Permit Number: C-4758-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4758-POD1	8.0 (Soil Boring)	110	Unknown	32° 7' 24.40"	103° 53' 47.32"

Specific Plugging Conditions of Approval for Well located in Eddy County, New Mexico.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces

the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. and 4. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of July 2023

Mike A. Hamman, P.E. State Engineer

By: K Parekh

Kashyap Parekh
Water Resources Manager I





STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

July 10, 2023

XTO Energy Inc.
3401 E. Greene Street
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4758-POD1

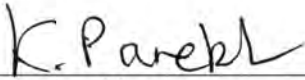
Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <https://www.ose.state.nm.us/Statewide/wdForms.php>.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,


Kashyap Parekh
Water Resources Manager I

 ENSOLUM		Sample Name: BH01		Date: 8/08/2023				
		Site Name: PLU PC 17 BATTERY						
		Incident Number: nAPP2233951574						
		Job Number: 03C1558215						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: M. O'Dell/S. Welvang		Method: Air Rotary Rig				
Coordinates: 32.123284, -103.897084		Hole Diameter: N/A		Total Depth: 110'				
Comments: No field screening was conducted.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
						10	CCHE	0-10'. Caliche w/sand. Tan to light brown, very fine to fine grained, well graded, subrounded to subangular grains, dry.
						20	SW	10-20'. Sand. Reddish brown, very fine to fine grained, subrounded to subangular grains, well graded, trace CCHE, dry.
						30	SW	20-30'. Sand w/CCHE mixture. Very fine to fine grained, CCHE medium to coarse grains, sand reddish brown, tan to light brown CCHE Well graded.
						40	SC	30-50'. Clayey sand w/ gravel. Brown, very fine to fine grained, gravel small grained, trace CCHE, dry.
						50		
						60	SP	50-80'. Sand, brown (trace red), very fine to fine grained, poorly graded, subrounded to subangular, dry.
						70		
						80		80-90'. Sand. Yellowish tan, very fine to fine grained, poorly graded, trace silty, trace orange sand, trace CCHE, dry.
						90		90'-110'. Sand. Brownish red, very fine to fine grained, poorly graded, subrounded to subangular, dry.
						100		
						110		110': stopped drilling and set casing to 110'.
TD at 110' bgs.								



APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM								Sample Name: BH01		Date: 5/16/2023	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KP		Method: Hand auger	
Coordinates: 32.124220,-103.895865								Hole Diameter: 3.5"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0'-2' SAND, brown, poorly sorted, fine grains, dry, odor, stained.			
D	280	3,520	Y	BH01	0.5	0.5					
D	414	1,605	N			1		1-2' odor, no staining			
D	414	327	N	BH01A	2	2					
							TD	Total Depth @2' bgs (refusal)			

 ENSOLUM		Sample Name: SS01/PH01		Date: 5/15/2023				
		Site Name: PLU Pierce Canyon 17						
		Incident Number: NAPP2233951574						
		Job Number: 03C1558215						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.124291,-103.896016				Logged By: KP		Method: Backhoe		
				Hole Diameter: NA		Total Depth: 3'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0'-1' SAND, brown, poorly sorted, fine grains, dry, odor, stained.
D	<173	464	Y	SS01	0.5	0.5		
D	1,646	14.1	N			1	CCHE	1-3' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, no staining, with some silt
D	526	18.4	N			2		
D	324	14.9	N	PH01	3	3		
							TD	Total Depth @3' bgs.

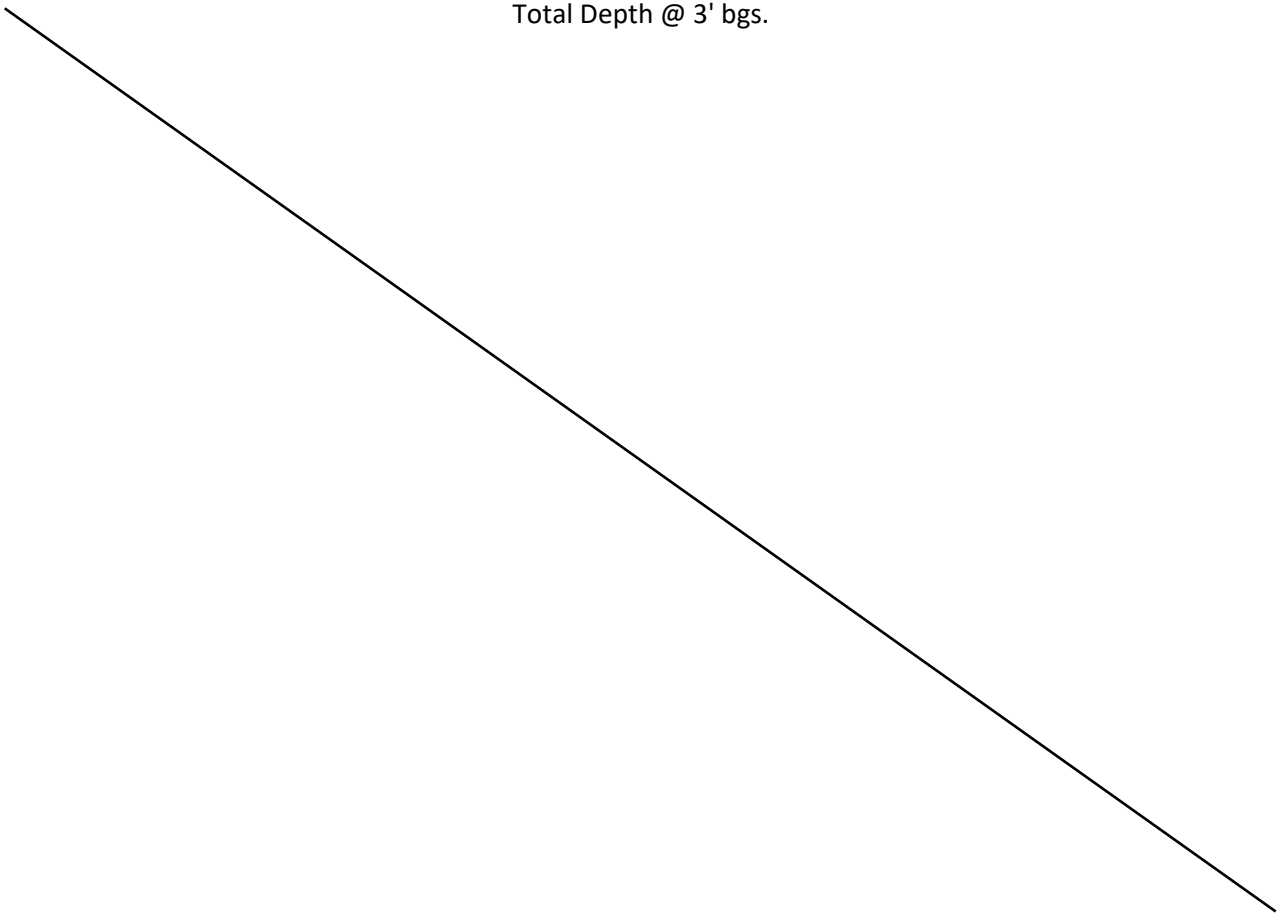
 ENSOLUM								Sample Name: SS02/PH02		Date: 5/15/2023	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KP		Method: Backhoe	
Coordinates: 32.124184,-103.896083								Hole Diameter: NA		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	SP-SM	0'-1' SAND, brown, poorly sorted, fine grains, dry, odor, stained, with some silt.			
D	632.8	302	Y	SS02	0.5	0.5					
D	470	171	N			1	CCHE	1-3' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, no staining, with some silt.			
D	644	8.4	N			2		2'-3', no odor			
D	207	1.9	N	PH02	3	3					
							TD	Total Depth @3' bgs.			

 ENSOLUM								Sample Name: SS03/PH03		Date: 5/15/2023	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KP		Method: Backhoe	
Coordinates: 32.124021,-103.896196								Hole Diameter: NA		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	SP-SM	0'-2' SAND, brown, poorly sorted, fine grains, dry, odor, stained, with some non-plastic noncohesive silt.			
D	<173	527	Y	SS03	0.5	0.5					
D	<173	1,154	N	PH03	1	1	CCHE	2-8' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, no staining, with some silt.			
D	<173	52.9	N			2					
D	<173	1,150	N			3					
D	<173	780	N			4					
D			N			5					
D	280	44.1	N	PH03A	6	6					
D			N			7					
D	173	2.3	N	PH03B	8	8		Total Depth @ 8' bgs			
							TD				

 ENSOLUM								Sample Name: SS04/PH04		Date: 5/16/2023	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KP		Method: Backhoe	
Coordinates: 32.123903,-103.896651								Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0'-2' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, stained, with some silt			
D	<173	765	Y	SS04	0.5	0.5		0.5'-2' no odor, no staining			
D	<173	18.2	N			1					
D	<173	2.6	N	PH04	2	2					
							TD	Total depth @ 2' bgs			

 ENSOLUM								Sample Name: SS05/PH05		Date: 5/16/2023	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KP		Method: Backhoe	
Coordinates: 32.123761,-103.896771								Hole Diameter: NA		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor included chloride field screening.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	0'-3' SAND, brown, poorly sorted, fine grains, dry, odor, stained.			
D	<173	435	Y	SS05	0.5	0.5		0.5-2' odor, no staining.			
D	<173	39.8	N			1					
D	<173	25.7	N			2		2-3' no odor, no staining			
D	<173	8.4	N	PH05	3	3					
							TD	Total depth @ 3' bgs			

 ENSOLUM		Sample Name: PH06		1/24/2024				
		Site Name: PLU Pierce Canyon 17						
		Incident Number: NAPP2233951574						
		Job Number: 03C1558215						
LITHOLOGIC / SOIL SAMPLING LOG				Name: M. O'Dell		Method: Backhoe		
Coordinates: 32.124195 , -103.895570				Hole Diameter: ~3'		Total Depth: 3'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<168	0	N	PH06	0.5	0	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.
D	<168	0	N	PH06A		1	SW	Sand. Reddish brown, very fine to fine grained, well graded, more CCHE, dry.
D	<168	0	N	PH06B	1	2	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	<168	0	N	PH06C	2	3		
Total Depth @ 3' bgs.								

 ENSOLUM		Sample Name: PH07		1/24/2024				
		Site Name: PLU Pierce Canyon 17						
		Incident Number: NAPP2233951574						
		Job Number: 03C1558215						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.124431, -103.895716			Name: M. O'Dell		Method: Backhoe			
			Hole Diameter: ~3'		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<168	0	N	PH07	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	<168	0	N	PH07A		1		
D	<168	0	N	PH07B	1	2	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.
D	<168	0	N	PH07C	2	3		Sand. Reddish brown, very fine to fine grained, well graded, more CCHE, dry.
Total Depth @ 3' bgs.								

 ENSOLUM						Sample Name: PH08		1/24/2024	
						Site Name: PLU Pierce Canyon 17			
						Incident Number: NAPP2233951574			
						Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG						Name: M. O'Dell		Method: Backhoe	
Coordinates: 32.124414, -103.895875						Hole Diameter: ~3'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0	N	PH08	0.5	0	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.	
D	<168	0	N	PH08A		1			
D	<168	0	N	PH08B	1	2			
D	<168	0	N	PH08C	2	3	SW	Sand. Reddish brown, very fine to fine grained, well graded, some CCHE, dry.	
Total Depth @ 3' bgs.									

 ENSOLUM								Sample Name: PH09		Date: 1/24/2024	
								Site Name: PLU Pierce Canyon 17			
								Incident Number: NAPP2233951574			
								Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Backhoe	
Coordinates: 32.124192,-103.895981								Hole Diameter: ~3'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,870	0	N	PH09	0.5	0	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry. CCHE. Pad material			
D	1,506	0	N	PH09A	1	1	CCHE				
D	717	0	N	PH09B	2	2					
D	650	0	N	PH09C	3	3					
D	588	0	N	PH09D	4	4					
Total Depth @ 4' bgs.											

 ENSOLUM						Sample Name: PH10		1/24/2024	
						Site Name: PLU Pierce Canyon 17			
						Incident Number: NAPP2233951574			
						Job Number: 03C1558215			
LITHOLOGIC / SOIL SAMPLING LOG						Name: M. O'Dell		Method: Backhoe	
Coordinates: 32.124120, -103.895873						Hole Diameter: ~3'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	235	0	N	PH10	0.5	0	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.	
D	319	0	N	PH10A	1	1			
D	202	0	N	PH10B	2	2			
D	<168	0	N	PH10C	3	3			
Total Depth @ 3' bgs.									



APPENDIX C

Photographic Log

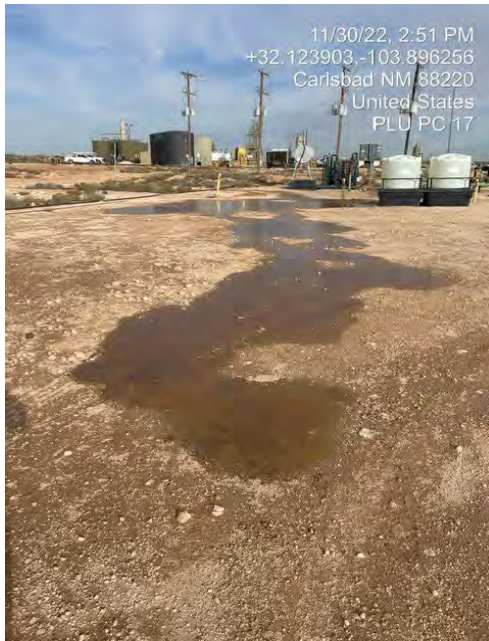


Photographic Log

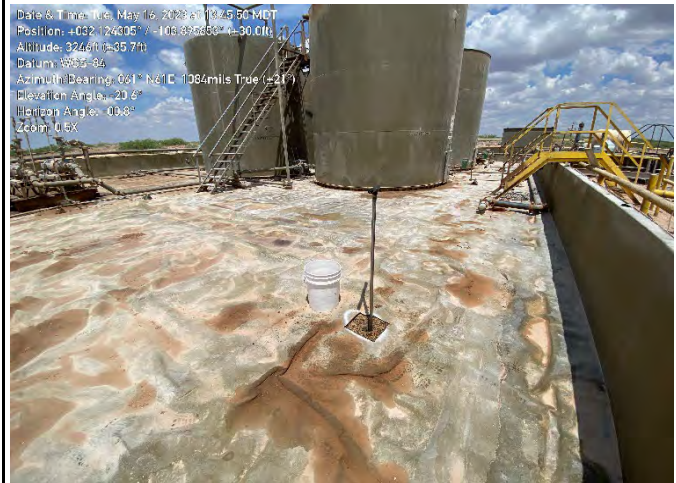
XTO Energy, Inc

Pierce Canyon 17 Battery

Incident Number NAPP2233951574



Photograph 1 Date: 11/30/2022
Description: Release extent immediately following Incident
View: Northeast



Photograph 2 Date: 05/16/2023
Description: Liner Delineation
View: South



Photograph 3 Date: 1/23/2024
Description: Delineation outside of containment (PH09); note active equipment surrounding active, lined containment.
View: North



Photograph 4 Date: 1/23/2024
Description: Active equipment surrounding active, lined containment.
View: Northeast



Photographic Log

XTO Energy, Inc

Pierce Canyon 17 Battery

Incident Number NAPP2233951574



Photograph 5

Date: 12/20/2023

Description: Excavation activities

View: East

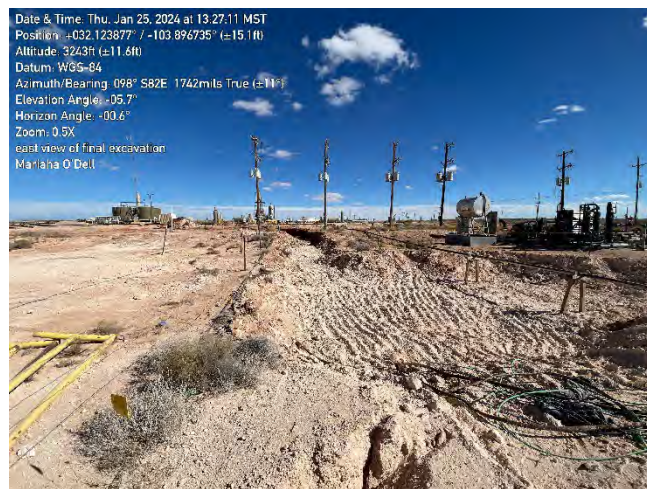


Photograph 6

Date: 1/25/2024

Description: Final excavation extent

View: North



Photograph 7

Date: 1/25/2024

Description: Final excavation extent

View: East



Photograph 8

Date: 1/25/2024

Description: Final excavation extent

View: Northeast

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

QUESTIONS

Action 315016

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 315016
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2233951574
Incident Name	NAPP2233951574 PIERCE CANYON 17 TANK BATTERY @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2126357126] PLU PIERCE CANYON 17 FED BATT

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PIERCE CANYON 17 TANK BATTERY
Date Release Discovered	11/30/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 300 BBL Recovered: 294 BBL Lost: 6 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	LACTs failed to engage

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District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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QUESTIONS, Page 2

Action 315016

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	315016
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/15/2024
--	--

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QUESTIONS, Page 3

Action 315016

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	315016
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	1020
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3650
GRO+DRO (EPA SW-846 Method 8015M)	3650
BTEX (EPA SW-846 Method 8021B or 8260B)	19.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.4

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	04/26/2023
On what date will (or did) the final sampling or liner inspection occur	01/24/2024
On what date will (or was) the remediation complete(d)	01/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	17083
What is the estimated volume (in cubic yards) that will be reclaimed	1990
What is the estimated surface area (in square feet) that will be remediated	16710
What is the estimated volume (in cubic yards) that will be remediated	1620

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
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District II

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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QUESTIONS, Page 4

Action 315016

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	315016
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/15/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 315016

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	315016
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Lined containment and active production equipment would have to be removed.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4996
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	575
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	PLU PIERCE CANYON 17 FED BATT [fAPP2126357126]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/15/2024

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QUESTIONS, Page 6

Action 315016

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	315016
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	305632
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/25/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	4000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 315016

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	315016
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH01, under tank battery is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	5/13/2024