



May 22, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
PLU 16 Twin Wells Ranch 102H  
Incident Number nAPP2334249809  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the PLU 16 Twin Wells Ranch 102H (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water. The following *Work Plan* proposes to excavate impacted and waste-containing soil.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit D, Section 21, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20755°, -103.78839°) and is associated with oil and gas exploration and production operations on Federal land under the stewardship of the Bureau of Land Management (BLM).

On November 26, 2023, equipment failure on a 2-inch drain line resulted in the release of 1,610 barrels (bbls) of produced water onto the surface of the pad and into the surrounding pasture and right-of-way (ROW) areas. Vacuum trucks were dispatched to the Site and recovered 1,300 bbls of released fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on November 27, 2023 and submitted a Form C-141 Application (Form C-141) on December 8, 2023. The release was assigned Incident Number nAPP2334249809.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4499, located approximately 0.36 miles southwest of the Site. Well C-4499 is a soil boring drilled by XTO utilizing a truck-mounted hollow-stem auger rig to determine regional depth to groundwater in the area. The soil boring was advanced to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was

XTO Energy, Inc.  
Remediation Work Plan  
PLU 16 Twin Wells Ranch 102H

left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater in the area is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A and all wells used for depth to water determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 6,702 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

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.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On December 6, and December 7, 2023, Ensolum personnel arrived onsite to conduct Site assessment and delineation activities. Potholes PH01 through PH16 were advanced via hand auger, backhoe, or hydrovacuum truck within the release extent. The potholes were advanced to a maximum depth of 8 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 0.5-foot bgs to 8 feet bgs. Soil samples from each pothole were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

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

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01, PH02, PH02A, PH03, PH04, and PH16 indicated chloride concentrations exceeded the reclamation requirement applied in the top 4 feet of

XTO Energy, Inc.  
Remediation Work Plan  
PLU 16 Twin Wells Ranch 102H

pasture areas. All other potholes were advanced on the facility pad and indicated elevated chloride concentrations of up to a maximum of 4,590 mg/kg, indicating the presence of waste-containing soil. Additionally, laboratory analytical results for soil samples collected at the terminal depth of all potholes indicated all COCs are below the strictest Table I Closure Criteria, and thus vertically defines the release. Analytical results for all soil samples collected indicated concentrations of benzene, BTEX, and TPH concentrations were in compliance with the strictest Table I Closure Criteria. Laboratory analytical results are presented in Table 1 and the complete laboratory analytical reports and chain-of-custody documentation are presented in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 81,544 square-foot area (18,461 square feet of pasture/ROW area) and extends to a maximum depth of 4 feet bgs. XTO proposes to complete the following remediation activities:

- Excavation of chloride-impacted and waste-containing soil to a maximum depth of 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm chloride concentrations are compliant with the reclamation requirement in the top four feet.
- The soil samples will be handled as described above and analyzed for chloride. The soil samples will be analyzed for chloride only since benzene, BTEX, and TPH concentrations were all below non detectable laboratory limits.
- Due to the estimated size of excavation, XTO requests a variance for frequency of confirmation samples. XTO proposes five-point composite samples to be collected at a sampling frequency of 500 square feet along the excavation floor and sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 468 samples (200 square-foot frequency) to approximately 188 samples.
- Horizontal definition will be achieved through either the collection of sidewall confirmation soil samples or the collection of delineation soil samples.
- An estimated 12,000 cubic yards of impacted and waste-containing soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill disposal facility.
- The excavation will be backfilled and recontoured to match pre-existing Site conditions and pasture/ROW area to be re-seeded with the approved BLM seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such XTO requests approval of the *Work Plan* with variances by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by NMOCD.

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

XTO Energy, Inc.  
Remediation Work Plan  
PLU 16 Twin Wells Ranch 102H

Sincerely,  
**Ensolum, LLC**



David A. McInnis  
Project Geologist



Tacoma Morrissey, M.S.  
Associate Principal

cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
BLM

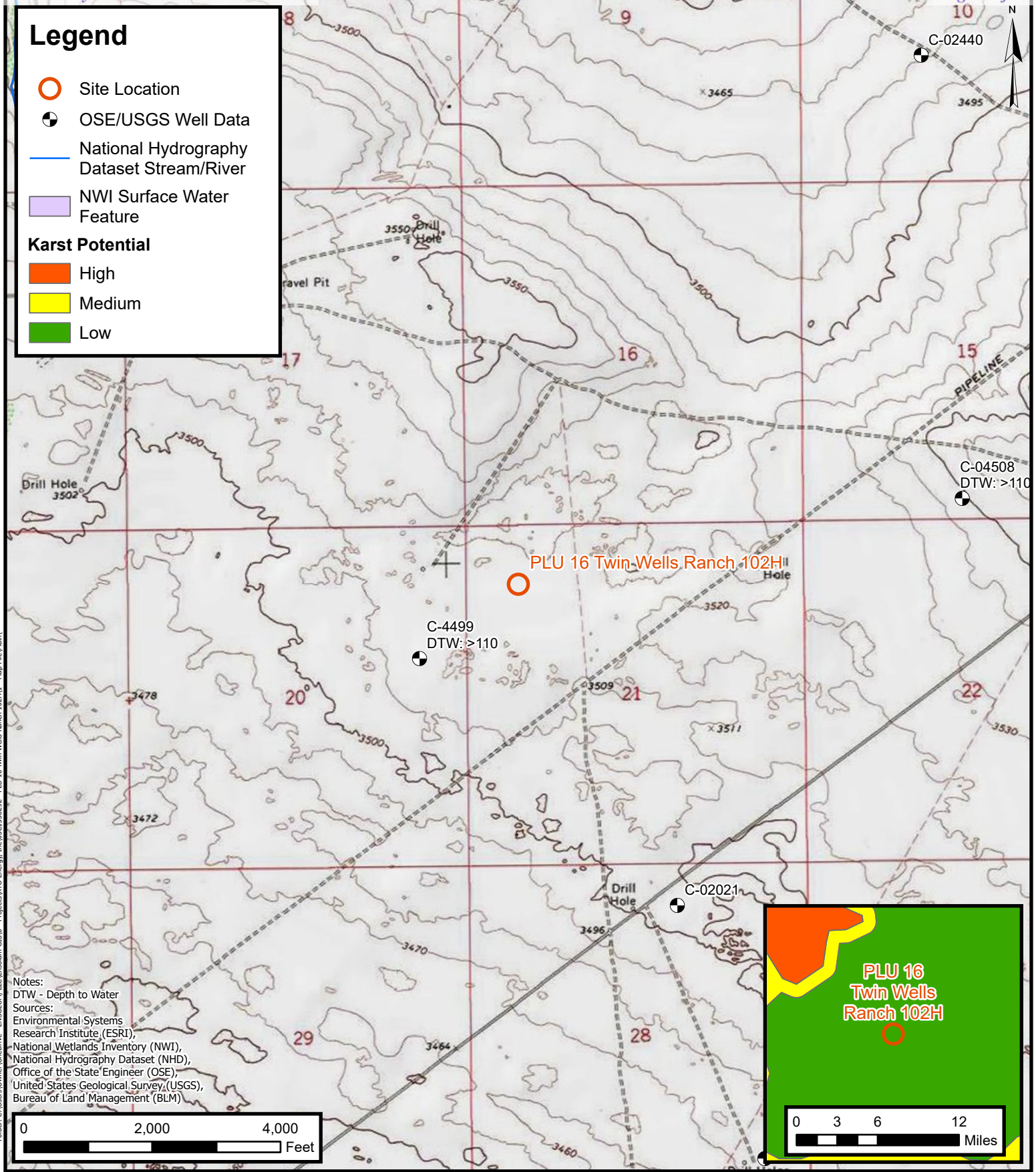
Appendices:

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





FIGURES



**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

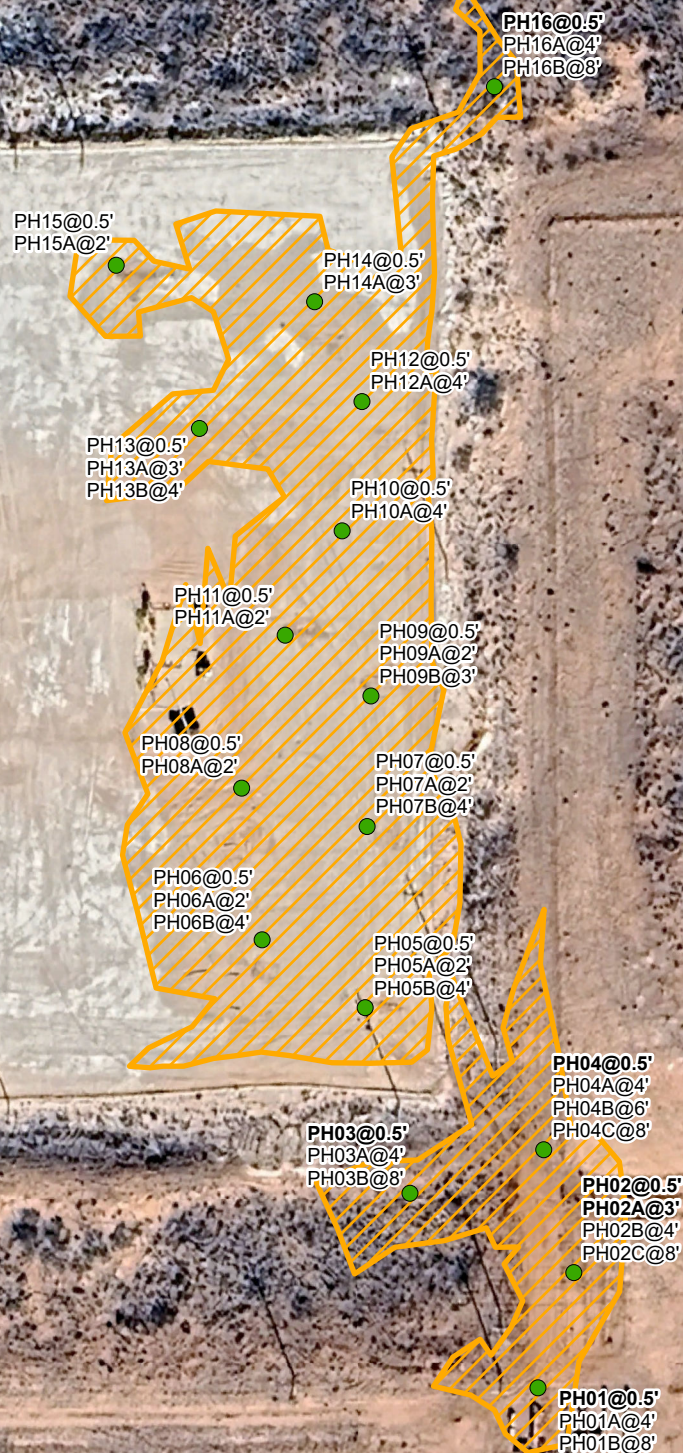
**Site Receptor Map**  
XTO Energy, Inc  
PLU 16 Twin Wells Ranch 102H  
Incident Number: nAPP2334249809  
Unit D, Section 21, Township 24 South, Range 31 East  
Eddy County, New Mexico

**FIGURE**  
**1**



**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- ▨ Release Extent



Notes:  
 Sample ID @ Depth Below Ground / Surface.  
 Samples in bold indicate sample exceeded applicable Reclamation Requirement.  
 Grey text indicate soil sample was removed during excavation activities.

0 25 50 100 150 200  
 Feet

Sources: Environmental Systems Research Institute (ESRI), Google Earth



## Delineation Soil Sample Locations

XTO Energy, Inc  
 PLU 16 Twin Wells Ranch 102H  
 Incident Number: nAPP2334249809  
 Unit D, Section 21, Township 24 South, Range 31 East  
 Eddy County, New Mexico

**FIGURE**

**2**





TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU 16 Twin Wells Ranch 102H**  
**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                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| PH01                                           | 12/06/2023  | 0.5                     | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | <b>2,930</b>     |
| PH01A                                          | 12/06/2023  | 4                       | <0.00199        | <0.00398           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 2,800            |
| PH01B                                          | 12/06/2023  | 8                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 82.6             |
| PH02                                           | 12/06/2023  | 0.5                     | <0.00200        | <0.00399           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | <b>4,380</b>     |
| PH02A                                          | 12/06/2023  | 3                       | <0.00200        | <0.00401           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | <b>867</b>       |
| PH02B                                          | 12/06/2023  | 4                       | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 3,030            |
| PH02C                                          | 12/06/2023  | 8                       | <0.00198        | <0.00396           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 94.5             |
| PH03                                           | 12/06/2023  | 0.5                     | <0.00200        | <0.00401           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | <b>3,490</b>     |
| PH03A                                          | 12/06/2023  | 4                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 702              |
| PH03B                                          | 12/06/2023  | 8                       | <0.00200        | <0.00399           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 22.9             |
| PH04                                           | 12/06/2023  | 0.5                     | <0.00199        | <0.00398           | <50.4           | 55.9            | <50.4           | 55.9            | 55.9              | <b>5,260</b>     |
| PH04A                                          | 12/06/2023  | 4                       | <0.00200        | <0.00401           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 1,610            |
| PH04B                                          | 12/06/2023  | 6                       | <0.00199        | <0.00398           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 3,180            |
| PH04C                                          | 12/06/2023  | 8                       | <0.00199        | <0.00398           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 80.1             |
| PH05                                           | 12/06/2023  | 0.5                     | <0.00198        | <0.00396           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 3,510            |
| PH05A                                          | 12/06/2023  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 1,030            |
| PH05B                                          | 12/06/2023  | 4                       | <0.00200        | <0.00401           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 108              |
| PH06                                           | 12/06/2023  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 4,110            |
| PH06A                                          | 12/06/2023  | 2                       | <0.00199        | <0.00398           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 1,210            |
| PH06B                                          | 12/06/2023  | 4                       | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 44.5             |
| PH07                                           | 12/06/2023  | 0.5                     | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 4,220            |
| PH07A                                          | 12/06/2023  | 2                       | <0.00199        | <0.00398           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 4,590            |
| PH07B                                          | 12/06/2023  | 4                       | <0.00198        | <0.00397           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 70.6             |
| PH08                                           | 12/06/2023  | 0.5                     | <0.00198        | <0.00397           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 1,970            |
| PH08A                                          | 12/06/2023  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 235              |
| PH09                                           | 12/07/2023  | 0.5                     | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 2,620            |
| PH09A                                          | 12/07/2023  | 2                       | <0.00200        | <0.00401           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 213              |
| PH09B                                          | 12/07/2023  | 3                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 27.9             |
| PH10                                           | 12/07/2023  | 0.5                     | <0.00200        | <0.00401           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 1,540            |
| PH10A                                          | 12/07/2023  | 4                       | <0.00200        | <0.00400           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 42.3             |
| PH11                                           | 12/07/2023  | 0.5                     | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 844              |
| PH11A                                          | 12/07/2023  | 2                       | <0.00198        | <0.00396           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 50.9             |
| PH12                                           | 12/07/2023  | 0.5                     | <0.00200        | <0.00399           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 1,530            |
| PH12A                                          | 12/07/2023  | 4                       | <0.00200        | <0.00401           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 84               |
| PH13                                           | 12/07/2023  | 0.5                     | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 219              |
| PH13A                                          | 12/07/2023  | 3                       | <0.00201        | <0.00402           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 229              |
| PH13B                                          | 12/07/2023  | 4                       | <0.00202        | <0.00404           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 37.7             |
| PH14                                           | 12/07/2023  | 0.5                     | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 3,100            |
| PH14A                                          | 12/07/2023  | 3                       | <0.00200        | <0.00399           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 58               |
| PH15                                           | 12/07/2023  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 478              |
| PH15A                                          | 12/07/2023  | 2                       | <0.00199        | <0.00398           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 42.1             |
| PH16                                           | 12/07/2023  | 0.5                     | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>5,700</b>     |
| PH16A                                          | 12/07/2023  | 4                       | <0.00201        | <0.00402           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 7,950            |
| PH16B                                          | 12/07/2023  | 8                       | <0.00202        | <0.00404           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 62.3             |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|--------------------------|
| 1. GENERAL AND WELL LOCATION                                                                                                                           | OSE POD NO. (WELL NO.)<br>POD1 (MW-1)                                                                                                                                                       |                    | WELL TAG ID NO.<br>n/a                       |                                                                                                 | OSE FILE NO(S).<br>C-4499                               |                                                                      |                                           |                          |
|                                                                                                                                                        | WELL OWNER NAME(S)<br>XTO Energy (Kyle Littrell)                                                                                                                                            |                    |                                              |                                                                                                 | PHONE (OPTIONAL)                                        |                                                                      |                                           |                          |
|                                                                                                                                                        | WELL OWNER MAILING ADDRESS<br>6401 Holiday Hill Dr.                                                                                                                                         |                    |                                              |                                                                                                 | CITY<br>Midland                                         | STATE<br>TX                                                          | ZIP<br>79707                              |                          |
|                                                                                                                                                        | WELL LOCATION<br>(FROM GPS)                                                                                                                                                                 | DEGREES<br>32°     |                                              | MINUTES<br>12'                                                                                  | SECONDS<br>15.89"                                       | N                                                                    |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             | LONGITUDE<br>-103° |                                              | 47'                                                                                             | 36.29"                                                  | W                                                                    |                                           |                          |
| * ACCURACY REQUIRED: ONE TENTH OF A SECOND<br>* DATUM REQUIRED: WGS 84                                                                                 |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>SE NE Sec. 20 T24S R31E |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
| 2. DRILLING & CASING INFORMATION                                                                                                                       | LICENSE NO.<br>1249                                                                                                                                                                         |                    | NAME OF LICENSED DRILLER<br>Jackie D. Atkins |                                                                                                 |                                                         | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |                                           |                          |
|                                                                                                                                                        | DRILLING STARTED<br>12/30/2020                                                                                                                                                              |                    | DRILLING ENDED<br>12/30/2020                 |                                                                                                 | DEPTH OF COMPLETED WELL (FT)<br>temporary well material | BORE HOLE DEPTH (FT)<br>110                                          | DEPTH WATER FIRST ENCOUNTERED (FT)<br>n/a |                          |
|                                                                                                                                                        | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)                                             |                    |                                              |                                                                                                 |                                                         | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>n/a                     |                                           |                          |
|                                                                                                                                                        | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:                                                                                   |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        | DEPTH (feet bgl)                                                                                                                                                                            |                    | BORE HOLE<br>DIAM<br>(inches)                | CASING MATERIAL AND/OR<br>GRADE<br>(include each casing string, and<br>note sections of screen) | CASING<br>CONNECTION<br>TYPE<br>(add coupling diameter) | CASING<br>INSIDE DIAM.<br>(inches)                                   | CASING WALL<br>THICKNESS<br>(inches)      | SLOT<br>SIZE<br>(inches) |
|                                                                                                                                                        | FROM                                                                                                                                                                                        | TO                 |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        | 0                                                                                                                                                                                           | 110                | ±8.5                                         | Boring- HSA                                                                                     | --                                                      | --                                                                   | --                                        | --                       |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
| 3. ANNULAR MATERIAL                                                                                                                                    | DEPTH (feet bgl)                                                                                                                                                                            |                    | BORE HOLE<br>DIAM. (inches)                  | LIST ANNULAR SEAL MATERIAL AND<br>GRAVEL PACK SIZE-RANGE BY INTERVAL                            | AMOUNT<br>(cubic feet)                                  | METHOD OF<br>PLACEMENT                                               |                                           |                          |
|                                                                                                                                                        | FROM                                                                                                                                                                                        | TO                 |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |
|                                                                                                                                                        |                                                                                                                                                                                             |                    |                                              |                                                                                                 |                                                         |                                                                      |                                           |                          |

FOR OSE INTERNAL USE

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

|                                |                            |                       |
|--------------------------------|----------------------------|-----------------------|
| FILE NO. <b>C-4499</b>         | POD NO. <b>1</b>           | TRN NO. <b>182532</b> |
| LOCATION <b>24S.31E.20.243</b> | WELL TAG ID NO. <b>---</b> | PAGE 1 OF 2           |

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| 4. HYDROGEOLOGIC LOG OF WELL                                                                                                                                                                        | DEPTH (feet bgl) |     | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER BEARING?<br>(YES / NO)           | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------|
|                                                                                                                                                                                                     | FROM             | TO  |                  |                                                                                                                                                          |                                        |                                               |
|                                                                                                                                                                                                     | 0                | 6   | 6                | SAND, well graded, fine-to-large grain particles red-brown, dry                                                                                          | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     | 6                | 8   | 2                | SAND, poorly graded, fine grained little clay mod. plasticity, red-brown, moist                                                                          | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     | 8                | 11  | 3                | CALICHE, mod. consolidated, some sand, medium /fine grain, white-tan, dry                                                                                | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     | 11               | 46  | 35               | CALICHE, mod. consolidated, some sand, medium to fine grain, white-tan, dry.                                                                             | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     | 46               | 74  | 28               | SAND, well-graded, medium grain, caliche gravel (1-4mm), light brown, dry.                                                                               | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     | 74               | 110 | 36               | SAND, well-graded, fine/large grain, few clay, cohesive, red-brown, dry                                                                                  | Y ✓ N                                  |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
|                                                                                                                                                                                                     |                  |     |                  |                                                                                                                                                          | Y N                                    |                                               |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: |                  |     |                  |                                                                                                                                                          | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 |                                               |

| 5. TEST; RIG SUPERVISION | WELL TEST                                                                                                                                                                                                                                                                                | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist. |                                                                                                                                                                                           |
|                          | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>Shane Eldridge                                                                                                                                                    |                                                                                                                                                                                           |

| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:<br><br><div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <br/>             Jackie D. Atkins           </div> <div style="text-align: right;">             01/15/2021           </div> </div> |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <div style="display: flex; justify-content: space-between;"> <div>SIGNATURE OF DRILLER / PRINT SIGNED NAME</div> <div>DATE</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                      |        |                                              |             |
|----------------------|--------|----------------------------------------------|-------------|
| FOR OSE INTERNAL USE |        | WR-20 WELL RECORD & LOG (Version 06/30/2017) |             |
| FILE NO.             | C-4499 | POD NO.                                      | 1           |
| LOCATION             |        | TRN NO.                                      | 482532      |
|                      |        | WELL TAG ID NO.                              | PAGE 2 OF 2 |

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## APPENDIX B

### Lithologic Soil Sampling Logs

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|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                | Sample Name: PH01          |                                                                                                                        | Date: 12/6/2023    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|----------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Site Name: PLU 16 TWR 102H |                                                                                                                        |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Incident Number:           |                                                                                                                        |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Job Number: 03C1558292     |                                                                                                                        |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                | Logged By: MR              |                                                                                                                        | Method: Hand Auger |  |
| Coordinates: 32.207557, -103.788404                                                                                                                                                                                                                      |                |             |          |           |                       |                | Hole Diameter: 4"          |                                                                                                                        | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                            |                                                                                                                        |                    |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol           | Lithologic Descriptions                                                                                                |                    |  |
| M                                                                                                                                                                                                                                                        | 3,696          | 6.1         | N        | PH01      | 0.5                   | 0              | SP-SM                      | 0-3' SAND with silt, medium brown to red. Poorly sorted, sub-rounded, medium to fine grains, no stain, no odor, moist. |                    |  |
| M                                                                                                                                                                                                                                                        | 3,360          | 13.2        | N        |           |                       | 1              |                            |                                                                                                                        |                    |  |
| M                                                                                                                                                                                                                                                        | 4,430          | 10.5        | N        |           |                       | 2              |                            |                                                                                                                        |                    |  |
| M                                                                                                                                                                                                                                                        | 5,258          | 8.1         | N        | PH01A     | 4                     | 3              | SP-SC                      | 3-6' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                   |                    |  |
| M                                                                                                                                                                                                                                                        | 11,575         | 7.3         | N        |           |                       | 4              |                            |                                                                                                                        |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 5              |                            |                                                                                                                        |                    |  |
| M                                                                                                                                                                                                                                                        | 1,870          | 3.1         | N        | PH01B     | 8                     | 6              | SP-SM                      | 6-8' SAND with silt, reddish brown. Medium to fine grains, subrounded, poorly sorted. No stain, no odor, moist.        |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 7              |                            |                                                                                                                        |                    |  |
| M                                                                                                                                                                                                                                                        | 245            | 0.1         | N        |           |                       | 8              |                            |                                                                                                                        |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                            | Total Depth @ 8' bgs.                                                                                                  |                    |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH02                                                                                                      |  | Date: 12/6/2023    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                             |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                       |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                 |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                          |  | Method: Hand Auger |  |
| Coordinates: 32.207721, -103.788341                                                                                                                                                                                                                      |                |             |          |           |                       |                |                  | Hole Diameter: 4"                                                                                                      |  | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                        |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                |  |                    |  |
| M                                                                                                                                                                                                                                                        | 8,495          | 12.1        | N        | PH02      | 0.5                   | 0              | SP-SM            | 0-3' SAND with silt, medium brown to red. Poorly sorted, sub-rounded, medium to fine grains, no stain, no odor, moist. |  |                    |  |
| M                                                                                                                                                                                                                                                        | 9,178          | 17.6        | N        |           |                       | 1              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,712          | 10.7        | N        |           |                       | 2              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,258          | 7.6         | N        | PH02A     |                       | 3              | SP-SC            | 3-6' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                   |  |                    |  |
| M                                                                                                                                                                                                                                                        | 9,178          | 8.1         | N        | PH02B     | 4                     | 4              |                  |                                                                                                                        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 5              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 6,199          | 4.2         | N        |           |                       | 6              | SP-SM            | 6-8' SAND with silt, reddish brown. Medium to fine grains, subrounded, poorly sorted. No stain, no odor, moist.        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 7              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.0         | N        | PH02C     | 8                     | 8              |                  |                                                                                                                        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  | Total Depth @ 8' bgs.                                                                                                  |  |                    |  |



|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                | Sample Name: PH03          |          | Date: 12/6/2023   |                       |                    |                  |                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------|----------|-------------------|-----------------------|--------------------|------------------|------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                          |                | Site Name: PLU 16 TWR 102H |          |                   |                       |                    |                  |                                                                                                                        |
|                                                                                                                                                                                                                                                          |                | Incident Number:           |          |                   |                       |                    |                  |                                                                                                                        |
|                                                                                                                                                                                                                                                          |                | Job Number: 03C1558292     |          |                   |                       |                    |                  |                                                                                                                        |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |                            |          |                   |                       |                    |                  |                                                                                                                        |
| Coordinates: 32.207837, 103.788615                                                                                                                                                                                                                       |                |                            |          | Logged By: MR     |                       | Method: Hand Auger |                  |                                                                                                                        |
|                                                                                                                                                                                                                                                          |                |                            |          | Hole Diameter: 4" |                       | 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% error factor is included in all chloride screenings. |                |                            |          |                   |                       |                    |                  |                                                                                                                        |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm)                | Staining | Sample ID         | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions                                                                                                |
| M                                                                                                                                                                                                                                                        | 5,258          | 6.2                        | N        | PH03              | 0.5                   | 0                  | SP-SM            | 0-3' SAND with silt, medium brown to red. Poorly sorted, sub-rounded, medium to fine grains, no stain, no odor, moist. |
| M                                                                                                                                                                                                                                                        | 5,528          | 5.8                        | N        |                   |                       | 1                  |                  |                                                                                                                        |
| M                                                                                                                                                                                                                                                        | 6,714          | 3.7                        | N        |                   |                       | 2                  |                  |                                                                                                                        |
| M                                                                                                                                                                                                                                                        | 9,918          | 5.6                        | N        | PH03A             | 4                     | 3                  | SP-SC            | 3-6' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                   |
| M                                                                                                                                                                                                                                                        | 14,678         | 9.8                        | N        |                   |                       | 4                  |                  |                                                                                                                        |
|                                                                                                                                                                                                                                                          |                |                            |          |                   |                       | 5                  |                  |                                                                                                                        |
| M                                                                                                                                                                                                                                                        | 5,712          | 3.2                        | N        | PH03B             | 8                     | 6                  | SP-SM            | 6-8' SAND with silt, reddish brown. Medium to fine grains, subrounded, poorly sorted. No stain, no odor, moist.        |
|                                                                                                                                                                                                                                                          |                |                            |          |                   |                       | 7                  |                  |                                                                                                                        |
| M                                                                                                                                                                                                                                                        | <168           | 0.1                        | N        |                   |                       | 8                  |                  |                                                                                                                        |
|                                                                                                                                                                                                                                                          |                |                            |          |                   |                       | TD                 |                  | Total Depth @ 8' bgs.                                                                                                  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH04                                                                                                      |  | Date: 12/6/2023    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                             |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                       |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                 |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                          |  | Method: Hand Auger |  |
| Coordinates: 32.207897, -103.788389                                                                                                                                                                                                                      |                |             |          |           |                       |                |                  | Hole Diameter: 4"                                                                                                      |  | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                        |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                |  |                    |  |
| M                                                                                                                                                                                                                                                        | 6,199          | 6.1         | N        | PH04      | 0.5                   | 0              | SP-SM            | 0-3' SAND with silt, medium brown to red. Poorly sorted, sub-rounded, medium to fine grains, no stain, no odor, moist. |  |                    |  |
| M                                                                                                                                                                                                                                                        | 6,199          | 5.3         | N        |           |                       | 1              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,258          | 4.9         | N        |           |                       | 2              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,712          | 6.7         | N        | PH04A     |                       | 3              | SP-SC            | 3-6' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                   |  |                    |  |
| M                                                                                                                                                                                                                                                        | 9,178          | 7.1         | N        |           |                       | 4              |                  |                                                                                                                        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 5              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 10,713         | 8.1         | N        | PH04B     | 6                     | 6              | SP-SM            | 6-8' SAND with silt, reddish brown. Medium to fine grains, subrounded, poorly sorted. No stain, no odor, moist.        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 7              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | <168           | 0           | N        | PH04C     | 8                     | 8              |                  | Total Depth @ 8' bgs.                                                                                                  |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  |                                                                                                                        |  |                    |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           | Sample Name: PH05          |                | Date: 12/6/2023  |                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|----------------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                          |                |             |          |           | Site Name: PLU 16 TWR 102H |                |                  |                                                                                                                             |
|                                                                                                                                                                                                                                                          |                |             |          |           | Incident Number:           |                |                  |                                                                                                                             |
|                                                                                                                                                                                                                                                          |                |             |          |           | Job Number: 03C1558292     |                |                  |                                                                                                                             |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           | Logged By: MR              |                | Method: Backhoe  |                                                                                                                             |
| Coordinates: 32.208104, -103.788687                                                                                                                                                                                                                      |                |             |          |           | Hole Diameter: ~3'         |                | Total Depth: 4'  |                                                                                                                             |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                            |                |                  |                                                                                                                             |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs)      | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                     |
| M                                                                                                                                                                                                                                                        | 6,199          | 10.2        | N        | PH05      | 0.5                        | 0              | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                             |
| M                                                                                                                                                                                                                                                        | 6,199          | 10.1        | N        |           |                            | 1              | SP-SM            | 0.5-3' SAND with silt, medium brown to reddish brown, medium to fine grained, sub-rounded grains, no stain, no odor, moist. |
| M                                                                                                                                                                                                                                                        | 8,495          | 12.7        | N        | PH05A     | 2                          | 2              |                  |                                                                                                                             |
| M                                                                                                                                                                                                                                                        | 6,714          | 13.2        | N        |           |                            | 3              | SP-SC            | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                        |
| M                                                                                                                                                                                                                                                        | 245            | 0.2         | N        | PH05B     | 4                          | 4              |                  |                                                                                                                             |
|                                                                                                                                                                                                                                                          |                |             |          |           |                            | TD             |                  | Total Depth @ 4' bgs.                                                                                                       |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH06                                                                                                           |  | Date: 12/6/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                                  |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                            |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                      |  |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                               |  | Method: Backhoe |  |
| Coordinates: 32.208202, -103.78886                                                                                                                                                                                                                       |                |             |          |           |                       |                |                  | Hole Diameter: ~3'                                                                                                          |  | Total Depth: 4' |  |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                             |  |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                     |  |                 |  |
| M                                                                                                                                                                                                                                                        | 4,430          | 3.1         | N        | PH06      | 0.5                   | 0              | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                             |  |                 |  |
| M                                                                                                                                                                                                                                                        | 5,712          | 0.7         | N        |           |                       | 1              | SP-SM            | 0.5-3' SAND with silt, medium brown to reddish brown, medium to fine grained, sub-rounded grains, no stain, no odor, moist. |  |                 |  |
| M                                                                                                                                                                                                                                                        | 7,862          | 2.1         | N        | PH06A     | 2                     | 2              |                  |                                                                                                                             |  |                 |  |
| M                                                                                                                                                                                                                                                        | 2,638          | 1.3         | N        |           |                       | 3              | SP-SC            | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                        |  |                 |  |
| M                                                                                                                                                                                                                                                        | 168            | 0.4         | N        | PH06B     | 4                     | 4              |                  |                                                                                                                             |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  | Total Depth @ 4' bgs.                                                                                                       |  |                 |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH07                                                                                                           |  | Date: 12/6/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                                  |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                            |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                      |  |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                               |  | Method: Backhoe |  |
| Coordinates: 32.208364, -103.788681                                                                                                                                                                                                                      |                |             |          |           |                       |                |                  | Hole Diameter: ~3'                                                                                                          |  | Total Depth: 4' |  |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                             |  |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                     |  |                 |  |
| M                                                                                                                                                                                                                                                        | 5,712          | 3.1         | N        | PH07      | 0.5                   | 0              | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                             |  |                 |  |
| M                                                                                                                                                                                                                                                        | 7,269          | 0.7         | N        |           |                       | 1              | SP-SM            | 0.5-3' SAND with silt, medium brown to reddish brown, medium to fine grained, sub-rounded grains, no stain, no odor, moist. |  |                 |  |
| M                                                                                                                                                                                                                                                        | 10,713         | 2.1         | N        | PH07A     | 2                     | 2              |                  |                                                                                                                             |  |                 |  |
| M                                                                                                                                                                                                                                                        | 364            | 1.3         | N        |           |                       | 3              | SP-SC            | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                        |  |                 |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.4         | N        | PH07B     | 4                     | 4              |                  |                                                                                                                             |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  | Total Depth @ 4' bgs.                                                                                                       |  |                 |  |



|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       | Sample Name: PH08          |                  | Date: 12/6/2023                                                                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Site Name: PLU 16 TWR 102H |                  |                                                                                                                             |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Incident Number:           |                  |                                                                                                                             |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Job Number: 03C1558292     |                  |                                                                                                                             |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       | Logged By: MR              |                  | Method: Backhoe                                                                                                             |  |
| Coordinates: 32.20842, -103.788891                                                                                                                                                                                                                       |                |             |          |           |                       | Hole Diameter: ~3'         |                  | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                            |                  |                                                                                                                             |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs)             | USCS/Rock Symbol | Lithologic Descriptions                                                                                                     |  |
| M                                                                                                                                                                                                                                                        | 2,246          | 0.9         | N        | PH08      | 0.5                   | 0                          | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                             |  |
| M                                                                                                                                                                                                                                                        | 291            | 0.8         | N        |           |                       | 1                          | SP-SM            | 0.5-3' SAND with silt, medium brown to reddish brown, medium to fine grained, sub-rounded grains, no stain, no odor, moist. |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.2         | N        | PH08A     | 2                     | 2                          |                  |                                                                                                                             |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       | Sample Name: PH09          |                  | Date: 12/7/2023                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Site Name: PLU 16 TWR 102H |                  |                                                                                                                                         |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Incident Number:           |                  |                                                                                                                                         |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Job Number: 03C1558292     |                  |                                                                                                                                         |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       | Logged By: MR              |                  | Method: Backhoe                                                                                                                         |  |
| Coordinates: 32.20855, -103.788672                                                                                                                                                                                                                       |                |             |          |           |                       | 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. A 40% error factor is included in all chloride screenings. |                |             |          |           |                       |                            |                  |                                                                                                                                         |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs)             | USCS/Rock Symbol | Lithologic Descriptions                                                                                                                 |  |
| M                                                                                                                                                                                                                                                        | 4,429          | 10.3        | N        | PH09      | 0.5                   | 0                          | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                         |  |
| M                                                                                                                                                                                                                                                        | 4,833          | 9.1         | N        |           |                       | 1                          | SP               | 0.5-1.5' SAND with caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |  |
| M                                                                                                                                                                                                                                                        | 7,269          | 5.4         | N        | PH09A     | 2                     | 2                          | SP-SM            | 1.5-3' SAND with silt, reddish brown, poorly sorted, medium to fine grained, no stain, no odor, moist.                                  |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.7         | N        | PH09B     | 3                     | 3                          | SP-SC            | 3' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                                      |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD                         |                  | Total Depth @ 3' bgs.                                                                                                                   |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       | Sample Name: PH10          |                  | Date: 12/7/2023                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Site Name: PLU 16 TWR 102H |                  |                                                                                                                                         |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Incident Number:           |                  |                                                                                                                                         |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | Job Number: 03C1558292     |                  |                                                                                                                                         |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       | Logged By: MR              |                  | Method: Backhoe                                                                                                                         |  |
| Coordinates: 32.208787, -103.788716                                                                                                                                                                                                                      |                |             |          |           |                       | Hole Diameter: ~3'         |                  | Total Depth: 4'                                                                                                                         |  |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                            |                  |                                                                                                                                         |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs)             | USCS/Rock Symbol | Lithologic Descriptions                                                                                                                 |  |
| M                                                                                                                                                                                                                                                        | 9,520          | 13.1        | N        | PH10      | 0.5                   | 0                          | CCHE             | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                         |  |
| M                                                                                                                                                                                                                                                        | 5,499          | 2.7         | N        |           |                       | 1                          | SP               | 0.5-1.5' SAND with caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |  |
| M                                                                                                                                                                                                                                                        | 2,778          | 1.8         | N        |           |                       | 2                          | SP-SM            | 1.5-3' SAND with silt, reddish brown, poorly sorted, medium to fine grained, no stain, no odor, moist.                                  |  |
| M                                                                                                                                                                                                                                                        | 963            | 1.2         | N        |           |                       | 3                          | SP-SC            | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                                    |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.1         | N        | PH10A     | 4                     | 4                          |                  | Total Depth @ 4' bgs.                                                                                                                   |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD                         |                  |                                                                                                                                         |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                | Sample Name: PH11          |                                                                                                                                         | Date: 12/7/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Site Name: PLU 16 TWR 102H |                                                                                                                                         |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Incident Number:           |                                                                                                                                         |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Job Number: 03C1558292     |                                                                                                                                         |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                | Logged By: MR              |                                                                                                                                         | Method: Backhoe |  |
| Coordinates: 32.208638, -103.788815                                                                                                                                                                                                                      |                |             |          |           |                       |                | Hole Diameter: ~3'         |                                                                                                                                         | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                            |                                                                                                                                         |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol           | Lithologic Descriptions                                                                                                                 |                 |  |
| M                                                                                                                                                                                                                                                        | 2,990          | 1.6         | N        | PH11      | 0.5                   | 0              | CCHE                       | 0-0.5' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                         |                 |  |
| M                                                                                                                                                                                                                                                        | 493            | 1.9         | N        |           |                       | 1              | SP                         | 0.5-1.5' SAND with caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |                 |  |
| M                                                                                                                                                                                                                                                        | 291            | 0.2         | N        | PH11A     | 2                     | 2              | SP-SM                      | 1.5-2' SAND with silt, reddish brown, poorly sorted, medium to fine grained, no stain, no odor, moist.                                  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                            | Total Depth @ 2' bgs.                                                                                                                   |                 |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                | Sample Name: PH12                                                                                                                         |                                                                               | Date: 12/7/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Site Name: PLU 16 TWR 102H                                                                                                                |                                                                               |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Incident Number:                                                                                                                          |                                                                               |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Job Number: 03C1558292                                                                                                                    |                                                                               |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                | Logged By: MR                                                                                                                             |                                                                               | Method: Backhoe |  |
| Coordinates: 32.208971, -103.788681                                                                                                                                                                                                                      |                |             |          |           |                       |                | Hole Diameter: ~3'                                                                                                                        |                                                                               | Total Depth: 4' |  |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                                                                                                                                           |                                                                               |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol                                                                                                                          | Lithologic Descriptions                                                       |                 |  |
| M                                                                                                                                                                                                                                                        | 10,282         | 13.1        | N        | PH12      | 0.5                   | 0              | CCHE                                                                                                                                      | 0-1' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained. |                 |  |
| M                                                                                                                                                                                                                                                        | 5,964          | 2.7         | N        |           | 1                     | SP             | 1-3' SAND with trace caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |                                                                               |                 |  |
| M                                                                                                                                                                                                                                                        | 5,964          | 1.8         | N        |           | 2                     |                |                                                                                                                                           |                                                                               |                 |  |
| M                                                                                                                                                                                                                                                        | 2,778          | 1.2         | N        |           | 3                     | SP-SC          | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                                      |                                                                               |                 |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.1         | N        | PH12A     | 4                     | 4              |                                                                                                                                           | Total Depth @ 4' bgs.                                                         |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                                                                                                                                           |                                                                               |                 |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                | Sample Name: PH13          |                                                                                                                                           | Date: 12/7/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Site Name: PLU 16 TWR 102H |                                                                                                                                           |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Incident Number:           |                                                                                                                                           |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Job Number: 03C1558292     |                                                                                                                                           |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                | Logged By: MR              |                                                                                                                                           | Method: Backhoe |  |
| Coordinates: 32.208936, -103.788955                                                                                                                                                                                                                      |                |             |          |           |                       |                | Hole Diameter: ~3'         |                                                                                                                                           | Total Depth: 4' |  |
| 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                            |                                                                                                                                           |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol           | Lithologic Descriptions                                                                                                                   |                 |  |
| M                                                                                                                                                                                                                                                        | 610            | 3.1         | N        | PH13      | 0.5                   | 0              | CCHE                       | 0-1' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                             |                 |  |
| M                                                                                                                                                                                                                                                        | 1,350          | 2.6         | N        |           |                       | 1              | SP                         | 1-3' SAND with trace caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |                 |  |
| M                                                                                                                                                                                                                                                        | 5,499          | 4.4         | N        |           |                       | 2              |                            |                                                                                                                                           |                 |  |
| M                                                                                                                                                                                                                                                        | 6,462          | 3.7         | N        | PH13A     | 3                     | 3              | SP-SC                      | 3-4' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                                      |                 |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.2         | N        | PH13B     | 4                     | 4              |                            |                                                                                                                                           |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                            | Total Depth @ 4' bgs.                                                                                                                     |                 |  |



|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH14                                                                                                                         |  | Date: 12/7/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                                                |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                                          |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                                    |  |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                                             |  | Method: Backhoe |  |
| Coordinates: 32.209115, -103.788758                                                                                                                                                                                                                      |                |             |          |           |                       |                |                  | 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. A 40% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                                           |  |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                                   |  |                 |  |
| M                                                                                                                                                                                                                                                        | 14,095         | 0.9         | N        | PH14      | 0.5                   | 0              | CCHE             | 0-1' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                             |  |                 |  |
| M                                                                                                                                                                                                                                                        | 2,778          | 0.7         | N        |           |                       | 1              | SP               | 1-3' SAND with trace caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |  |                 |  |
| M                                                                                                                                                                                                                                                        | 2,990          | 0.5         | N        |           |                       | 2              |                  |                                                                                                                                           |  |                 |  |
| M                                                                                                                                                                                                                                                        | 246            | 0.2         | N        | PH14A     | 3                     | 3              | SP-SC            | 3' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                                        |  |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  | Total Depth @ 3' bgs.                                                                                                                     |  |                 |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                | Sample Name: PH15          |                                                                                                                                           | Date: 12/7/2023 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Site Name: PLU 16 TWR 102H |                                                                                                                                           |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Incident Number:           |                                                                                                                                           |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                | Job Number: 03C1558292     |                                                                                                                                           |                 |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                | Logged By: MR              |                                                                                                                                           | Method: Backhoe |  |
| Coordinates: 32.209171, -103.789092                                                                                                                                                                                                                      |                |             |          |           |                       |                | Hole Diameter: ~3'         |                                                                                                                                           | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                            |                                                                                                                                           |                 |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol           | Lithologic Descriptions                                                                                                                   |                 |  |
| M                                                                                                                                                                                                                                                        | 6,989          | 0.9         | N        | PH15      | 0.5                   | 0              | CCHE                       | 0-1' CALICHE, medium brown, medium to coarse grained, poorly sorted. Stained.                                                             |                 |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.7         | N        |           |                       | 1              | SP                         | 1-2' SAND with trace caliche, medium to red brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain, no odor, moist. |                 |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.5         | N        | PH15A     | 2                     | 2              |                            | Total Depth @ 2' bgs.                                                                                                                     |                 |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                            |                                                                                                                                           |                 |  |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                                                                                          |                |             |          |           |                       |                |                  | Sample Name: PH16                                                                                                      |  | Date: 12/7/2023    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Site Name: PLU 16 TWR 102H                                                                                             |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Incident Number:                                                                                                       |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Job Number: 03C1558292                                                                                                 |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                    |                |             |          |           |                       |                |                  | Logged By: MR                                                                                                          |  | Method: Hand Auger |  |
| Coordinates: 32.209420, -103.788451                                                                                                                                                                                                                      |                |             |          |           |                       |                |                  | Hole Diameter: 4"                                                                                                      |  | 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% error factor is included in all chloride screenings. |                |             |          |           |                       |                |                  |                                                                                                                        |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                         | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                                |  |                    |  |
| M                                                                                                                                                                                                                                                        | 11,575         | 3.2         | N        | PH16      | 0.5                   | 0              | SP-SM            | 0-3' SAND with silt, medium brown to red. Poorly sorted, sub-rounded, medium to fine grains, no stain, no odor, moist. |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,258          | 4.1         | N        |           |                       | 1              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 5,712          | 6.2         | N        |           |                       | 2              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 11,575         | 2.7         | N        | PH16A     |                       | 3              | SP-SC            | 3-6' CLAYEY SAND, reddish brown. Fine to very fine grains, no stain, no odor, moist.                                   |  |                    |  |
| M                                                                                                                                                                                                                                                        | 15,926         | 3.3         | N        |           | 4                     | 4              |                  |                                                                                                                        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 5              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | 4,430          | 1.7         | N        | PH16B     |                       | 6              | SP-SM            | 6-8' SAND with silt, reddish brown. Medium to fine grains, subrounded, poorly sorted. No stain, no odor, moist.        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | 7              |                  |                                                                                                                        |  |                    |  |
| M                                                                                                                                                                                                                                                        | <168           | 0.4         | N        |           | 8                     | 8              |                  |                                                                                                                        |  |                    |  |
|                                                                                                                                                                                                                                                          |                |             |          |           |                       | TD             |                  | Total Depth @ 8' bgs.                                                                                                  |  |                    |  |



## APPENDIX C

### Photographic Log

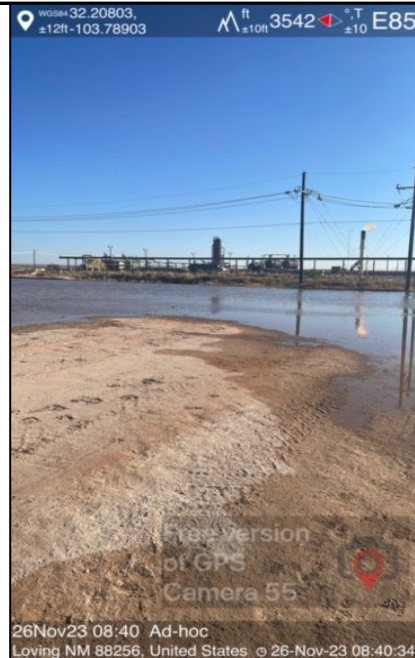
---

**Photographic Log**

XTO Energy, Inc  
 PLU 16 Twin Wells Ranch 102H  
 nAPP2334249809



Photograph: 1 Date: 11/26/2023  
 Description: Produced water in release footprint  
 View: Southwest



Photograph: 2 Date: 11/26/2023  
 Description: Soil staining in release footprint  
 View: East



Photograph: 3 Date: 12/6/2023  
 Description: Soil staining in release footprint  
 View: South



Photograph: 4 Date: 12/6/2023  
 Description: Soil Staining in release footprint  
 View: North



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/18/2023 8:59:11 AM Revision 1

## JOB DESCRIPTION

PLU 16 TWR 102H

03C1558292

## JOB NUMBER

890-5755-1

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](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Generated  
12/18/2023 8:59:11 AM  
Revision 1

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Laboratory Job ID: 890-5755-1  
SDG: 03C1558292

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Client Sample Results . . . . .  | 8  |
| Surrogate Summary . . . . .      | 36 |
| QC Sample Results . . . . .      | 39 |
| QC Association Summary . . . . . | 52 |
| Lab Chronicle . . . . .          | 61 |
| Certification Summary . . . . .  | 72 |
| Method Summary . . . . .         | 73 |
| Sample Summary . . . . .         | 74 |
| Chain of Custody . . . . .       | 75 |
| Receipt Checklists . . . . .     | 79 |

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

## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

## HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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                                                                                       |

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## Case Narrative

Client: Ensolum  
Project: PLU 16 TWR 102H

Job ID: 890-5755-1

Job ID: 890-5755-1

Eurofins Carlsbad

**Job Narrative**  
**890-5755-1**

REVISION

The report being provided is a revision of the original report sent on 12/14/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID edits. Revision needed.

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 12/7/2023 3:22 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 2.8°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01A (890-5755-1), PH01B (890-5755-2), PH02A (890-5755-3), PH02B (890-5755-4), PH02C (890-5755-5), PH03A (890-5755-6), PH03B (890-5755-7), PH04A (890-5755-8), PH04B (890-5755-9), PH04C (890-5755-10), PH05A (890-5755-11), PH05B (890-5755-12), PH06A (890-5755-13), PH06B (890-5755-14), PH07A (890-5755-15), PH07B (890-5755-16), PH08 (890-5755-17), PH08A (890-5755-18), PH09A (890-5755-19), PH09B (890-5755-20), PH10 (890-5755-21), PH10A (890-5755-22), PH11 (890-5755-23), PH11A (890-5755-24), PH12 (890-5755-25), PH12A (890-5755-26), PH13A (890-5755-27), PH13B (890-5755-28), PH14 (890-5755-29), PH14A (890-5755-30), PH15 (890-5755-31), PH15A (890-5755-32), PH16A (890-5755-33) and PH16B (890-5755-34).

**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-36696-A-1-C MSD). 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 880-68939 and analytical batch 880-68889 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: Surrogate recovery for the following samples were outside control limits: (MB 880-68998/5-A) and (MB 880-69014/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5771-A-13-C MSD). 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 880-69014 and analytical batch 880-68975 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 surrogate recovery for the blank associated with preparation batch 880-69015 and analytical batch 880-68997 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-69028 and analytical batch 880-68997 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

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## Case Narrative

Client: Ensolum  
Project: PLU 16 TWR 102H

Job ID: 890-5755-1

### Job ID: 890-5755-1 (Continued)

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acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-69028 and analytical batch 880-68997 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-68962/1-A) and (LCSD 880-68962/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01A (890-5755-1), PH02A (890-5755-3), PH02B (890-5755-4), PH02C (890-5755-5) and (890-5755-A-1-G MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04C (890-5755-10), PH05A (890-5755-11), PH07B (890-5755-16), PH08 (890-5755-17), PH08A (890-5755-18), PH09A (890-5755-19) and PH09B (890-5755-20). 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 880-68962 and analytical batch 880-68890 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 method blank for preparation batch 880-69028 and analytical batch 880-68997 contained o-Xylene 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.

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 880-68817 and analytical batch 880-68745 was outside the upper control limits.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-68850 and analytical batch 880-68747 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH10 (890-5755-21), PH10A (890-5755-22), PH11 (890-5755-23), PH12 (890-5755-25), PH12A (890-5755-26), PH14A (890-5755-30), PH15 (890-5755-31) and PH15A (890-5755-32). 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: (CCV 880-68747/31), (CCV 880-68747/47) and (CCV 880-68747/58). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH01A (890-5755-1), PH01B (890-5755-2), PH02A (890-5755-3), PH02B (890-5755-4), PH02C (890-5755-5), PH03A (890-5755-6), PH03B (890-5755-7), PH04A (890-5755-8), PH04B (890-5755-9), PH04C (890-5755-10), PH05A (890-5755-11), PH05B (890-5755-12), PH06A (890-5755-13), PH06B (890-5755-14), PH07A (890-5755-15), PH07B (890-5755-16), PH08 (890-5755-17), PH08A (890-5755-18), PH09A (890-5755-19), PH09B (890-5755-20), (890-5755-A-1-E MS) and (890-5755-A-1-F MSD). 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 880-68817 and analytical batch 880-68745 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

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68801 and analytical batch 880-68836 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.

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Case Narrative

Client: Ensolum  
Project: PLU 16 TWR 102H

Job ID: 890-5755-1

Job ID: 890-5755-1 (Continued) Eurofins Carlsbad

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68803 and analytical batch 880-68918 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.

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

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH01A

Lab Sample ID: 890-5755-1

Date Collected: 12/06/23 11:15

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F1 F2   | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| Toluene             | <0.00199 | U F1 F2   | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| Ethylbenzene        | <0.00199 | U F1 F2   | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F1 F2   | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| o-Xylene            | <0.00199 | U F1 F2   | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| Xylenes, Total      | <0.00398 | U F1 F2   | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:50 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 60        | S1-       | 70 - 130 | 12/12/23 08:16 | 12/13/23 03:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 03:50 | 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 |   |          | 12/13/23 03:50 | 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 |   |          | 12/11/23 21:43 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3  | U         | 50.3 | mg/Kg |   | 12/11/23 12:05 | 12/11/23 21:43 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U F1      | 50.3 | mg/Kg |   | 12/11/23 12:05 | 12/11/23 21:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 | mg/Kg |   | 12/11/23 12:05 | 12/11/23 21:43 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 157       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/11/23 21:43 | 1       |
| o-Terphenyl    | 152       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/11/23 21:43 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2800   | F1        | 25.3 | mg/Kg |   |          | 12/11/23 21:12 | 5       |

Client Sample ID: PH01B

Lab Sample ID: 890-5755-2

Date Collected: 12/06/23 12:30

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

## 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 |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 04:17 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH01B

Lab Sample ID: 890-5755-2

Date Collected: 12/06/23 12:30

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 112       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 04:17 | 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 |   |          | 12/13/23 04:17 | 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 |   |          | 12/11/23 22:48 | 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 |   | 12/11/23 12:05 | 12/11/23 22:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 22:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 22:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 168       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 22:48 | 1       |
| o-Terphenyl                          | 156       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 22:48 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 82.6   |           | 5.05 | mg/Kg |   |          | 12/11/23 21:31 | 1       |

Client Sample ID: PH02A

Lab Sample ID: 890-5755-3

Date Collected: 12/06/23 11:40

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 04:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 68        | S1-       | 70 - 130 | 12/12/23 08:16 | 12/13/23 04:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 04:43 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 12/13/23 04:43 | 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 |   |          | 12/11/23 23:10 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH02A

Lab Sample ID: 890-5755-3

Date Collected: 12/06/23 11:40

Matrix: Solid

Date Received: 12/07/23 15:22

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 | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 173       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:10 | 1       |
| o-Terphenyl                          | 171       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:10 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 867    |           | 5.05 | mg/Kg |   |          | 12/11/23 21:37 | 1       |

Client Sample ID: PH02B

Lab Sample ID: 890-5755-4

Date Collected: 12/06/23 11:45

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 60        | S1-       | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 05:09 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 05:09 | 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 |   |          | 12/11/23 23:32 | 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 | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 167       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:32 | 1       |
| o-Terphenyl                          | 153       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:32 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH02B

Lab Sample ID: 890-5755-4

Date Collected: 12/06/23 11:45

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3030   |           | 25.3 | mg/Kg |   |          | 12/11/23 21:43 | 5       |

Client Sample ID: PH02C

Lab Sample ID: 890-5755-5

Date Collected: 12/06/23 12:35

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

## 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 |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 74        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 140       | S1+       | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 05:36 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 12/13/23 05:36 | 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 |   |          | 12/11/23 23:53 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 12:05 | 12/11/23 23:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 172       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:53 | 1       |
| o-Terphenyl                          | 159       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/11/23 23:53 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 94.5   |           | 5.02 | mg/Kg |   |          | 12/11/23 21:49 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH03A

Lab Sample ID: 890-5755-6

Date Collected: 12/06/23 13:25

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:02 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 06:02 | 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 |   |          | 12/12/23 00:14 | 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 |   | 12/11/23 12:05 | 12/12/23 00:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:14 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 164       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 00:14 | 1       |
| o-Terphenyl    | 151       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 00:14 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 702    |           | 5.01 | mg/Kg |   |          | 12/12/23 12:00 | 1       |

Client Sample ID: PH03B

Lab Sample ID: 890-5755-7

Date Collected: 12/06/23 13:35

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

## 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 |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:28 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH03B

Lab Sample ID: 890-5755-7

Date Collected: 12/06/23 13:35

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 116       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:28 | 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 |   |          | 12/13/23 06:28 | 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 |   |          | 12/12/23 00:35 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 161       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 00:35 | 1       |
| o-Terphenyl                          | 155       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 00:35 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 22.9   |           | 5.02 | mg/Kg |   |          | 12/12/23 12:07 | 1       |

Client Sample ID: PH04A

Lab Sample ID: 890-5755-8

Date Collected: 12/06/23 12:15

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 06:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 06:54 | 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 |   |          | 12/13/23 06:54 | 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 |   |          | 12/12/23 00:57 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH04A

Lab Sample ID: 890-5755-8

Date Collected: 12/06/23 12:15

Matrix: Solid

Date Received: 12/07/23 15:22

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 | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 00:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 172       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 00:57 | 1       |
| o-Terphenyl                          | 160       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 00:57 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1610   |           | 25.0 | mg/Kg |   |          | 12/12/23 12:13 | 5       |

Client Sample ID: PH04B

Lab Sample ID: 890-5755-9

Date Collected: 12/06/23 12:20

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 6'

## 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 |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 07:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 07:20 | 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 |   |          | 12/13/23 07:20 | 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 |   |          | 12/12/23 01:18 | 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 |   | 12/11/23 12:05 | 12/12/23 01:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 01:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 01:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 160       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 01:18 | 1       |
| o-Terphenyl                          | 153       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 01:18 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH04B

Lab Sample ID: 890-5755-9

Date Collected: 12/06/23 12:20

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 6'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3180   |           | 24.8 | mg/Kg |   |          | 12/12/23 12:19 | 5       |

Client Sample ID: PH04C

Lab Sample ID: 890-5755-10

Date Collected: 12/06/23 12:25

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

## 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 |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 282       | S1+       | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 07:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 116       |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 07:46 | 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 |   |          | 12/13/23 07:46 | 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 |   |          | 12/12/23 01:39 | 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 | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 01:39 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 01:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 01:39 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 173       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 01:39 | 1       |
| o-Terphenyl                          | 164       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 01:39 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 80.1   |           | 5.04 | mg/Kg |   |          | 12/12/23 12:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH05A

Lab Sample ID: 890-5755-11

Date Collected: 12/06/23 10:40

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 10:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 10:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 69        | S1-       | 70 - 130 | 12/12/23 08:16 | 12/13/23 10:43 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 12/13/23 10:43 | 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 |   |          | 12/12/23 02:21 | 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 | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:21 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:21 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:21 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 167       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 02:21 | 1       |
| o-Terphenyl    | 157       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 02:21 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1030   |           | 5.02 | mg/Kg |   |          | 12/12/23 12:31 | 1       |

Client Sample ID: PH05B

Lab Sample ID: 890-5755-12

Date Collected: 12/06/23 10:50

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 11:09 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH05B

Lab Sample ID: 890-5755-12

Date Collected: 12/06/23 10:50

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 4'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 11:09 | 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 |   |          | 12/13/23 11:09 | 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 |   |          | 12/12/23 02:42 | 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 | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:42 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:42 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 02:42 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 164       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 02:42 | 1       |
| o-Terphenyl                          | 162       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 02:42 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 108    |           | 4.97 | mg/Kg |   |          | 12/12/23 12:49 | 1       |

Client Sample ID: PH06A

Lab Sample ID: 890-5755-13

Date Collected: 12/06/23 12:50

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 11:35 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 11:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 11:35 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 11:35 | 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 |   |          | 12/12/23 03:04 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH06A

Lab Sample ID: 890-5755-13

Date Collected: 12/06/23 12:50

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/11/23 12:05 | 12/12/23 03:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U         | 49.7     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:04 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 202       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:04 | 1       |
| o-Terphenyl                          | 188       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:04 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1210   |           | 4.99 | mg/Kg |   |          | 12/12/23 12:56 | 1       |

Client Sample ID: PH06B

Lab Sample ID: 890-5755-14

Date Collected: 12/06/23 13:00

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 125       |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 12:02 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 12:02 | 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 |   |          | 12/12/23 03:25 | 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 |   | 12/11/23 12:05 | 12/12/23 03:25 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:25 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 191       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:25 | 1       |
| o-Terphenyl                          | 175       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## Client Sample ID: PH06B

Date Collected: 12/06/23 13:00

Date Received: 12/07/23 15:22

Sample Depth: 4'

## Lab Sample ID: 890-5755-14

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 44.5   |           | 5.00 | mg/Kg |   |          | 12/12/23 13:14 | 1       |

## Client Sample ID: PH07A

Date Collected: 12/06/23 13:50

Date Received: 12/07/23 15:22

Sample Depth: 2'

## Lab Sample ID: 890-5755-15

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 12:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 12:28 | 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 |   |          | 12/13/23 12:28 | 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 |   |          | 12/12/23 03:46 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 03:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 172       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:46 | 1       |
| o-Terphenyl                          | 158       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 03:46 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4590   |           | 24.9 | mg/Kg |   |          | 12/12/23 13:20 | 5       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH07B

Lab Sample ID: 890-5755-16

Date Collected: 12/06/23 14:00

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 12:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 12:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 62        | S1-       | 70 - 130 | 12/12/23 08:16 | 12/13/23 12:54 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 12/13/23 12:54 | 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 |   |          | 12/12/23 04:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4  | U         | 50.4 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4  | U         | 50.4 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4  | U         | 50.4 | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:08 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 174       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 04:08 | 1       |
| o-Terphenyl    | 161       | S1+       | 70 - 130 | 12/11/23 12:05 | 12/12/23 04:08 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 70.6   |           | 5.04 | mg/Kg |   |          | 12/12/23 13:26 | 1       |

Client Sample ID: PH08

Lab Sample ID: 890-5755-17

Date Collected: 12/06/23 14:05

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 13:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 37        | S1-       | 70 - 130 | 12/12/23 08:16 | 12/13/23 13:21 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH08

Lab Sample ID: 890-5755-17

Date Collected: 12/06/23 14:05

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 0.5'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 107       |           | 70 - 130 | 12/12/23 08:16 | 12/13/23 13:21 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 12/13/23 13:21 | 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 |   |          | 12/12/23 04:33 | 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 |   | 12/11/23 12:05 | 12/12/23 04:33 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:33 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 170       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 04:33 | 1       |
| o-Terphenyl                          | 157       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 04:33 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1970   |           | 25.0 | mg/Kg |   |          | 12/12/23 13:32 | 5       |

Client Sample ID: PH08A

Lab Sample ID: 890-5755-18

Date Collected: 12/06/23 14:15

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 08:16 | 12/13/23 17:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 144       | S1+       | 70 - 130 | 12/13/23 08:16 | 12/13/23 17:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 12/13/23 08:16 | 12/13/23 17:07 | 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 |   |          | 12/13/23 17:07 | 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 |   |          | 12/12/23 04:54 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH08A

Lab Sample ID: 890-5755-18

Date Collected: 12/06/23 14:15

Matrix: Solid

Date Received: 12/07/23 15:22

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 | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 04:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 167       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 04:54 | 1       |
| o-Terphenyl                          | 158       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 04:54 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 235    |           | 5.03 | mg/Kg |   |          | 12/12/23 13:39 | 1       |

Client Sample ID: PH09A

Lab Sample ID: 890-5755-19

Date Collected: 12/07/23 09:25

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 156       | S1+       | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 17:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 17:33 | 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 |   |          | 12/13/23 17:33 | 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 |   |          | 12/12/23 05:15 | 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 |   | 12/11/23 12:05 | 12/12/23 05:15 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 05:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 12:05 | 12/12/23 05:15 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 168       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 05:15 | 1       |
| o-Terphenyl                          | 154       | S1+       | 70 - 130 |       |   | 12/11/23 12:05 | 12/12/23 05:15 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH09A

Lab Sample ID: 890-5755-19

Date Collected: 12/07/23 09:25

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 2'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 213    |           | 5.03 | mg/Kg |   |          | 12/12/23 13:45 | 1       |

Client Sample ID: PH09B

Lab Sample ID: 890-5755-20

Date Collected: 12/07/23 09:30

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| Toluene                     | <0.00199         | U                | 0.00199       | mg/Kg |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| Ethylbenzene                | <0.00199         | U                | 0.00199       | mg/Kg |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| m-Xylene & p-Xylene         | <0.00398         | U                | 0.00398       | mg/Kg |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| o-Xylene                    | <0.00199         | U                | 0.00199       | mg/Kg |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| Xylenes, Total              | <0.00398         | U                | 0.00398       | mg/Kg |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 66               | S1-              | 70 - 130      |       |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |
| 1,4-Difluorobenzene (Surr)  | 131              | S1+              | 70 - 130      |       |   | 12/12/23 08:16  | 12/13/23 17:59  | 1              |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 17:59 | 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 |   |          | 12/12/23 05:36 | 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 |   | 12/11/23 12:05  | 12/12/23 05:36  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                | 49.9          | mg/Kg |   | 12/11/23 12:05  | 12/12/23 05:36  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.9            | U                | 49.9          | mg/Kg |   | 12/11/23 12:05  | 12/12/23 05:36  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 162              | S1+              | 70 - 130      |       |   | 12/11/23 12:05  | 12/12/23 05:36  | 1              |
| o-Terphenyl                          | 148              | S1+              | 70 - 130      |       |   | 12/11/23 12:05  | 12/12/23 05:36  | 1              |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 27.9   |           | 5.01 | mg/Kg |   |          | 12/12/23 13:51 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH10

Lab Sample ID: 890-5755-21

Date Collected: 12/07/23 10:15

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 04:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 04:21 | 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 |   |          | 12/13/23 04:21 | 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 |   |          | 12/11/23 21:43 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1  | U         | 50.1 | mg/Kg |   | 12/11/23 14:20 | 12/11/23 21:43 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1  | U         | 50.1 | mg/Kg |   | 12/11/23 14:20 | 12/11/23 21:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1  | U         | 50.1 | mg/Kg |   | 12/11/23 14:20 | 12/11/23 21:43 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 12/11/23 14:20 | 12/11/23 21:43 | 1       |
| o-Terphenyl    | 132       | S1+       | 70 - 130 | 12/11/23 14:20 | 12/11/23 21:43 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1540   | F1        | 24.8 | mg/Kg |   |          | 12/12/23 15:32 | 5       |

Client Sample ID: PH10A

Lab Sample ID: 890-5755-22

Date Collected: 12/07/23 10:35

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 04:41 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 04:41 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH10A

Lab Sample ID: 890-5755-22

Date Collected: 12/07/23 10:35

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 4'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 116       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 04:41 | 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 |   |          | 12/13/23 04:41 | 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 |   |          | 12/11/23 22:48 | 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 |   | 12/11/23 14:20 | 12/11/23 22:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U         | 49.7     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 22:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 22:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 127       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 22:48 | 1       |
| o-Terphenyl                          | 140       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 22:48 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 42.3   |           | 5.00 | mg/Kg |   |          | 12/12/23 19:01 | 1       |

Client Sample ID: PH11

Lab Sample ID: 890-5755-23

Date Collected: 12/07/23 10:40

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 83        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 06:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 06:32 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 12/13/23 06:32 | 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 |   |          | 12/11/23 23:10 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH11

Lab Sample ID: 890-5755-23

Date Collected: 12/07/23 10:40

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/11/23 14:20 | 12/11/23 23:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 143       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:10 | 1       |
| o-Terphenyl                          | 153       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:10 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 844    |           | 4.99 | mg/Kg |   |          | 12/12/23 19:07 | 1       |

Client Sample ID: PH11A

Lab Sample ID: 890-5755-24

Date Collected: 12/07/23 10:55

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 2'

## 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 |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 111       |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 06:53 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 12/13/23 06:53 | 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 |   |          | 12/11/23 23:32 | 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 | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 110       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:32 | 1       |
| o-Terphenyl                          | 121       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:32 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH11A

Lab Sample ID: 890-5755-24

Date Collected: 12/07/23 10:55

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 2'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 50.9   |           | 4.95 | mg/Kg |   |          | 12/12/23 19:13 | 1       |

Client Sample ID: PH12

Lab Sample ID: 890-5755-25

Date Collected: 12/07/23 11:00

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 07:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 116       |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 07:13 | 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 |   |          | 12/13/23 07:13 | 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 |   |          | 12/11/23 23:53 | 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 | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 14:20 | 12/11/23 23:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 121       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:53 | 1       |
| o-Terphenyl                          | 134       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/11/23 23:53 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1530   |           | 24.9 | mg/Kg |   |          | 12/12/23 19:19 | 5       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH12A

Lab Sample ID: 890-5755-26

Date Collected: 12/07/23 11:20

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:34 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 07:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 120       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 07:34 | 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 |   |          | 12/13/23 07:34 | 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 |   |          | 12/12/23 00:14 | 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 |   | 12/11/23 14:20 | 12/12/23 00:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U         | 50.3 | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:14 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 12/11/23 14:20 | 12/12/23 00:14 | 1       |
| o-Terphenyl    | 131       | S1+       | 70 - 130 | 12/11/23 14:20 | 12/12/23 00:14 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 84.0   |           | 4.95 | mg/Kg |   |          | 12/12/23 19:38 | 1       |

Client Sample ID: PH13A

Lab Sample ID: 890-5755-27

Date Collected: 12/07/23 12:25

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 07:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 07:54 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH13A

Lab Sample ID: 890-5755-27

Date Collected: 12/07/23 12:25

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 3'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 121       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 07:54 | 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 |   |          | 12/13/23 07:54 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4  | U         | 50.4 | mg/Kg |   |          | 12/12/23 00:35 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 117       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 00:35 | 1       |
| o-Terphenyl                          | 127       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 00:35 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 229    |           | 5.05 | mg/Kg |   |          | 12/12/23 19:44 | 1       |

Client Sample ID: PH13B

Lab Sample ID: 890-5755-28

Date Collected: 12/07/23 12:30

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 08:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 08:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 08:15 | 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 |   |          | 12/13/23 08:15 | 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 |   |          | 12/12/23 00:57 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH13B

Lab Sample ID: 890-5755-28

Date Collected: 12/07/23 12:30

Matrix: Solid

Date Received: 12/07/23 15:22

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 | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 00:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 114       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 00:57 | 1       |
| o-Terphenyl                          | 125       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 00:57 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 37.7   |           | 5.01 | mg/Kg |   |          | 12/12/23 19:50 | 1       |

Client Sample ID: PH14

Lab Sample ID: 890-5755-29

Date Collected: 12/07/23 12:55

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 09:42 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 09:42 | 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 |   |          | 12/13/23 09:42 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 12/12/23 01:18 | 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 |   | 12/11/23 14:20 | 12/12/23 01:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 01:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 01:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 116       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 01:18 | 1       |
| o-Terphenyl                          | 128       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 01:18 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH14

Lab Sample ID: 890-5755-29

Date Collected: 12/07/23 12:55

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 0.5'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3100   |           | 25.2 | mg/Kg |   |          | 12/12/23 19:56 | 5       |

Client Sample ID: PH14A

Lab Sample ID: 890-5755-30

Date Collected: 12/07/23 13:10

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90        |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 10:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 120       |           | 70 - 130 |       |   | 12/12/23 14:14 | 12/13/23 10:02 | 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 |   |          | 12/13/23 10:02 | 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 |   |          | 12/12/23 01:39 | 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 |   | 12/11/23 14:20 | 12/12/23 01:39 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 01:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 01:39 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 01:39 | 1       |
| o-Terphenyl                          | 133       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 01:39 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 58.0   |           | 4.98 | mg/Kg |   |          | 12/12/23 20:02 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH15

Lab Sample ID: 890-5755-31

Date Collected: 12/07/23 12:35

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 84        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 10:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 124       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 10:23 | 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 |   |          | 12/13/23 10:23 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 12/12/23 02:21 | 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 | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:21 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:21 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:21 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 143       | S1+       | 70 - 130 | 12/11/23 14:20 | 12/12/23 02:21 | 1       |
| o-Terphenyl    | 158       | S1+       | 70 - 130 | 12/11/23 14:20 | 12/12/23 02:21 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 478    |           | 5.00 | mg/Kg |   |          | 12/12/23 20:08 | 1       |

Client Sample ID: PH15A

Lab Sample ID: 890-5755-32

Date Collected: 12/07/23 12:45

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 10:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 10:43 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH15A

Lab Sample ID: 890-5755-32

Date Collected: 12/07/23 12:45

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 120       |           | 70 - 130 | 12/12/23 14:14 | 12/13/23 10:43 | 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 |   |          | 12/13/23 10:43 | 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 |   |          | 12/12/23 02:42 | 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 | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:42 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:42 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2     | U         | 50.2     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 02:42 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 143       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 02:42 | 1       |
| o-Terphenyl                          | 156       | S1+       | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 02:42 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 42.1   |           | 4.95 | mg/Kg |   |          | 12/12/23 20:27 | 1       |

Client Sample ID: PH16A

Lab Sample ID: 890-5755-33

Date Collected: 12/07/23 10:00

Matrix: Solid

Date Received: 12/07/23 15:22

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 |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 12/13/23 10:58 | 12/14/23 06:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 75        |           | 70 - 130 | 12/13/23 10:58 | 12/14/23 06:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 78        |           | 70 - 130 | 12/13/23 10:58 | 12/14/23 06:06 | 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 |   |          | 12/14/23 06:06 | 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 |   |          | 12/12/23 03:04 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH16A

Lab Sample ID: 890-5755-33

Date Collected: 12/07/23 10:00

Matrix: Solid

Date Received: 12/07/23 15:22

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 | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 03:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 03:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 03:04 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 03:04 | 1       |
| o-Terphenyl                          | 128       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 03:04 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 7950   |           | 50.5 | mg/Kg |   |          | 12/12/23 20:33 | 10      |

Client Sample ID: PH16B

Lab Sample ID: 890-5755-34

Date Collected: 12/07/23 10:10

Matrix: Solid

Date Received: 12/07/23 15:22

Sample Depth: 8'

## 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 |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| m-Xylene & p-Xylene         | <0.00404  | U         | 0.00404  | mg/Kg |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| Xylenes, Total              | <0.00404  | U         | 0.00404  | mg/Kg |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 |       |   | 12/13/23 14:21 | 12/14/23 10:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 116       |           | 70 - 130 |       |   | 12/13/23 14:21 | 12/14/23 10:48 | 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 |   |          | 12/14/23 10:48 | 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 |   |          | 12/12/23 03:25 | 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 |   | 12/11/23 14:20 | 12/12/23 03:25 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 03:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 14:20 | 12/12/23 03:25 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 03:25 | 1       |
| o-Terphenyl                          | 126       |           | 70 - 130 |       |   | 12/11/23 14:20 | 12/12/23 03:25 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH16B**  
**Date Collected: 12/07/23 10:10**  
**Date Received: 12/07/23 15:22**  
**Sample Depth: 8'**

**Lab Sample ID: 890-5755-34**  
**Matrix: Solid**

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|----------------------------------------------------------|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte                                                  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride                                                 | 62.3   |           | 4.95 | mg/Kg |   |          | 12/12/23 20:51 | 1       |  |

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

## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|------------------------------------------------|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-36696-A-1-B MS  | Matrix Spike           | 96                                             | 109               |
| 880-36696-A-1-C MSD | Matrix Spike Duplicate | 284 S1+                                        | 115               |
| 890-5747-A-1-C MS   | Matrix Spike           | 100                                            | 104               |
| 890-5747-A-1-D MSD  | Matrix Spike Duplicate | 244 S1+                                        | 117               |
| 890-5755-1          | PH01A                  | 60 S1-                                         | 85                |
| 890-5755-1 MS       | PH01A                  | 171 S1+                                        | 83                |
| 890-5755-1 MSD      | PH01A                  | 71                                             | 105               |
| 890-5755-2          | PH01B                  | 82                                             | 112               |
| 890-5755-3          | PH02A                  | 68 S1-                                         | 83                |
| 890-5755-4          | PH02B                  | 117                                            | 60 S1-            |
| 890-5755-5          | PH02C                  | 74                                             | 140 S1+           |
| 890-5755-6          | PH03A                  | 81                                             | 80                |
| 890-5755-7          | PH03B                  | 103                                            | 116               |
| 890-5755-8          | PH04A                  | 98                                             | 102               |
| 890-5755-9          | PH04B                  | 102                                            | 83                |
| 890-5755-10         | PH04C                  | 282 S1+                                        | 116               |
| 890-5755-11         | PH05A                  | 126                                            | 69 S1-            |
| 890-5755-12         | PH05B                  | 128                                            | 93                |
| 890-5755-13         | PH06A                  | 104                                            | 83                |
| 890-5755-14         | PH06B                  | 125                                            | 94                |
| 890-5755-15         | PH07A                  | 113                                            | 92                |
| 890-5755-16         | PH07B                  | 102                                            | 62 S1-            |
| 890-5755-17         | PH08                   | 37 S1-                                         | 107               |
| 890-5755-18         | PH08A                  | 144 S1+                                        | 86                |
| 890-5755-19         | PH09A                  | 156 S1+                                        | 84                |
| 890-5755-20         | PH09B                  | 66 S1-                                         | 131 S1+           |
| 890-5755-21         | PH10                   | 94                                             | 117               |
| 890-5755-22         | PH10A                  | 95                                             | 116               |
| 890-5755-23         | PH11                   | 83                                             | 110               |
| 890-5755-24         | PH11A                  | 95                                             | 111               |
| 890-5755-25         | PH12                   | 91                                             | 116               |
| 890-5755-26         | PH12A                  | 96                                             | 120               |
| 890-5755-27         | PH13A                  | 91                                             | 121               |
| 890-5755-28         | PH13B                  | 102                                            | 117               |
| 890-5755-29         | PH14                   | 101                                            | 113               |
| 890-5755-30         | PH14A                  | 90                                             | 120               |
| 890-5755-31         | PH15                   | 84                                             | 124               |
| 890-5755-32         | PH15A                  | 91                                             | 120               |
| 890-5755-33         | PH16A                  | 75                                             | 78                |
| 890-5755-34         | PH16B                  | 96                                             | 116               |
| 890-5771-A-13-B MS  | Matrix Spike           | 97                                             | 90                |
| 890-5771-A-13-C MSD | Matrix Spike Duplicate | 61 S1-                                         | 101               |
| LCS 880-68939/1-A   | Lab Control Sample     | 105                                            | 108               |
| LCS 880-68962/1-A   | Lab Control Sample     | 139 S1+                                        | 72                |
| LCS 880-69014/1-A   | Lab Control Sample     | 96                                             | 108               |
| LCS 880-69028/1-A   | Lab Control Sample     | 92                                             | 106               |
| LCSD 880-68939/2-A  | Lab Control Sample Dup | 109                                            | 107               |
| LCSD 880-68962/2-A  | Lab Control Sample Dup | 153 S1+                                        | 102               |
| LCSD 880-69014/2-A  | Lab Control Sample Dup | 94                                             | 105               |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| LCSD 880-69028/2-A                | Lab Control Sample Dup | 97                                             | 108               |
| MB 880-68892/5-A                  | Method Blank           | 96                                             | 129               |
| MB 880-68922/5-A                  | Method Blank           | 73                                             | 90                |
| MB 880-68939/5-A                  | Method Blank           | 97                                             | 126               |
| MB 880-68962/5-A                  | Method Blank           | 87                                             | 84                |
| MB 880-68998/5-A                  | Method Blank           | 67 S1-                                         | 93                |
| MB 880-69014/5-A                  | Method Blank           | 68 S1-                                         | 90                |
| MB 880-69015/5-A                  | Method Blank           | 112                                            | 141 S1+           |
| MB 880-69028/5-A                  | Method Blank           | 113                                            | 141 S1+           |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-5755-1      | PH01A            | 157 S1+                                        | 152 S1+           |
| 890-5755-1 MS   | PH01A            | 189 S1+                                        | 141 S1+           |
| 890-5755-1 MSD  | PH01A            | 198 S1+                                        | 151 S1+           |
| 890-5755-2      | PH01B            | 168 S1+                                        | 156 S1+           |
| 890-5755-3      | PH02A            | 173 S1+                                        | 171 S1+           |
| 890-5755-4      | PH02B            | 167 S1+                                        | 153 S1+           |
| 890-5755-5      | PH02C            | 172 S1+                                        | 159 S1+           |
| 890-5755-6      | PH03A            | 164 S1+                                        | 151 S1+           |
| 890-5755-7      | PH03B            | 161 S1+                                        | 155 S1+           |
| 890-5755-8      | PH04A            | 172 S1+                                        | 160 S1+           |
| 890-5755-9      | PH04B            | 160 S1+                                        | 153 S1+           |
| 890-5755-10     | PH04C            | 173 S1+                                        | 164 S1+           |
| 890-5755-11     | PH05A            | 167 S1+                                        | 157 S1+           |
| 890-5755-12     | PH05B            | 164 S1+                                        | 162 S1+           |
| 890-5755-13     | PH06A            | 202 S1+                                        | 188 S1+           |
| 890-5755-14     | PH06B            | 191 S1+                                        | 175 S1+           |
| 890-5755-15     | PH07A            | 172 S1+                                        | 158 S1+           |
| 890-5755-16     | PH07B            | 174 S1+                                        | 161 S1+           |
| 890-5755-17     | PH08             | 170 S1+                                        | 157 S1+           |
| 890-5755-18     | PH08A            | 167 S1+                                        | 158 S1+           |
| 890-5755-19     | PH09A            | 168 S1+                                        | 154 S1+           |
| 890-5755-20     | PH09B            | 162 S1+                                        | 148 S1+           |
| 890-5755-21     | PH10             | 120                                            | 132 S1+           |
| 890-5755-21 MS  | PH10             | 125                                            | 123               |
| 890-5755-21 MSD | PH10             | 125                                            | 121               |
| 890-5755-22     | PH10A            | 127                                            | 140 S1+           |
| 890-5755-23     | PH11             | 143 S1+                                        | 153 S1+           |
| 890-5755-24     | PH11A            | 110                                            | 121               |
| 890-5755-25     | PH12             | 121                                            | 134 S1+           |
| 890-5755-26     | PH12A            | 117                                            | 131 S1+           |
| 890-5755-27     | PH13A            | 117                                            | 127               |

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Surrogate Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-5755-28        | PH13B                  | 114                                            | 125               |
| 890-5755-29        | PH14                   | 116                                            | 128               |
| 890-5755-30        | PH14A                  | 108                                            | 133 S1+           |
| 890-5755-31        | PH15                   | 143 S1+                                        | 158 S1+           |
| 890-5755-32        | PH15A                  | 143 S1+                                        | 156 S1+           |
| 890-5755-33        | PH16A                  | 118                                            | 128               |
| 890-5755-34        | PH16B                  | 115                                            | 126               |
| LCS 880-68817/2-A  | Lab Control Sample     | 115                                            | 130               |
| LCS 880-68850/2-A  | Lab Control Sample     | 99                                             | 112               |
| LCSD 880-68817/3-A | Lab Control Sample Dup | 98                                             | 97                |
| LCSD 880-68850/3-A | Lab Control Sample Dup | 110                                            | 127               |
| MB 880-68817/1-A   | Method Blank           | 243 S1+                                        | 241 S1+           |
| MB 880-68850/1-A   | Method Blank           | 174 S1+                                        | 209 S1+           |

Surrogate Legend

1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: MB 880-68892/5-A

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68892

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 11:20 | 12/12/23 13:31 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96              |                 | 70 - 130 | 12/12/23 11:20 | 12/12/23 13:31 | 1       |
| 1,4-Difluorobenzene (Surr)  | 129             |                 | 70 - 130 | 12/12/23 11:20 | 12/12/23 13:31 | 1       |

Lab Sample ID: MB 880-68922/5-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68922

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 11:18 | 12/12/23 13:53 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 73              |                 | 70 - 130 | 12/12/23 11:18 | 12/12/23 13:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90              |                 | 70 - 130 | 12/12/23 11:18 | 12/12/23 13:53 | 1       |

Lab Sample ID: MB 880-68939/5-A

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68939

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/12/23 14:14 | 12/13/23 01:08 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97              |                 | 70 - 130 | 12/12/23 14:14 | 12/13/23 01:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 126             |                 | 70 - 130 | 12/12/23 14:14 | 12/13/23 01:08 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: LCS 880-68939/1-A

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68939

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1114     |               | mg/Kg |   | 111  | 70 - 130    |
| Toluene             | 0.100       | 0.08287    |               | mg/Kg |   | 83   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09277    |               | mg/Kg |   | 93   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1932     |               | mg/Kg |   | 97   | 70 - 130    |
| o-Xylene            | 0.100       | 0.08630    |               | mg/Kg |   | 86   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108           |               | 70 - 130 |

Lab Sample ID: LCSD 880-68939/2-A

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68939

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1109      |                | mg/Kg |   | 111  | 70 - 130    | 0   | 35        |
| Toluene             | 0.100       | 0.08644     |                | mg/Kg |   | 86   | 70 - 130    | 4   | 35        |
| Ethylbenzene        | 0.100       | 0.08159     |                | mg/Kg |   | 82   | 70 - 130    | 13  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1643      |                | mg/Kg |   | 82   | 70 - 130    | 16  | 35        |
| o-Xylene            | 0.100       | 0.08991     |                | mg/Kg |   | 90   | 70 - 130    | 4   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 109            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107            |                | 70 - 130 |

Lab Sample ID: 880-36696-A-1-B MS

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68939

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00201      | U F1             | 0.0998      | 0.05769   | F1           | mg/Kg |   | 58   | 70 - 130    |
| Toluene             | <0.00201      | U F1 F2          | 0.0998      | 0.04349   | F1           | mg/Kg |   | 43   | 70 - 130    |
| Ethylbenzene        | <0.00201      | U F1             | 0.0998      | 0.04087   | F1           | mg/Kg |   | 41   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U F1             | 0.200       | 0.1017    | F1           | mg/Kg |   | 50   | 70 - 130    |
| o-Xylene            | <0.00201      | U F1 F2          | 0.0998      | 0.04858   | F1           | mg/Kg |   | 48   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109          |              | 70 - 130 |

Lab Sample ID: 880-36696-A-1-C MSD

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68939

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene      | <0.00201      | U F1             | 0.0994      | 0.04872    | F1            | mg/Kg |   | 49   | 70 - 130    | 17  | 35        |
| Toluene      | <0.00201      | U F1 F2          | 0.0994      | 0.02324    | F1 F2         | mg/Kg |   | 23   | 70 - 130    | 61  | 35        |
| Ethylbenzene | <0.00201      | U F1             | 0.0994      | 0.04013    | F1            | mg/Kg |   | 40   | 70 - 130    | 2   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: 880-36696-A-1-C MSD

Matrix: Solid

Analysis Batch: 68889

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68939

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| m-Xylene & p-Xylene         | <0.00402      | U F1             | 0.199       | 0.1209     | F1            | mg/Kg |   | 60   | 70 - 130    | 17  | 35        |
| o-Xylene                    | <0.00201      | U F1 F2          | 0.0994      | 0.07162    | F2            | mg/Kg |   | 71   | 70 - 130    | 38  | 35        |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr) | 284           | S1+              | 70 - 130    |            |               |       |   |      |             |     |           |
| 1,4-Difluorobenzene (Surr)  | 115           |                  | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-68962/5-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68962

| Analyte                     | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier |          |       |   |                |                |         |
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
|                             |           |           |          |       |   |                |                |         |
| Surrogate                   | MB        | MB        | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| %Recovery                   | Qualifier |           |          |       |   |                |                |         |
| 4-Bromofluorobenzene (Surr) | 87        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |       |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |

Lab Sample ID: LCS 880-68962/1-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68962

| Analyte             |  |  | Spike | LCS    | LCS       | Unit  | D | %Rec   | %Rec     |  |  |
|---------------------|--|--|-------|--------|-----------|-------|---|--------|----------|--|--|
|                     |  |  | Added | Result | Qualifier |       |   | Limits |          |  |  |
| Benzene             |  |  | 0.100 | 0.1074 |           | mg/Kg |   | 107    | 70 - 130 |  |  |
| Toluene             |  |  | 0.100 | 0.1037 |           | mg/Kg |   | 104    | 70 - 130 |  |  |
| Ethylbenzene        |  |  | 0.100 | 0.1131 |           | mg/Kg |   | 113    | 70 - 130 |  |  |
| m-Xylene & p-Xylene |  |  | 0.200 | 0.2241 |           | mg/Kg |   | 112    | 70 - 130 |  |  |
| o-Xylene            |  |  | 0.100 | 0.1162 |           | mg/Kg |   | 116    | 70 - 130 |  |  |
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|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |
|                     |  |  |       |        |           |       |   |        |          |  |  |

Lab Sample ID: LCSD 880-68962/2-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68962

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09112     |                | mg/Kg |   | 91   | 70 - 130    | 16  | 35        |
| Toluene             | 0.100       | 0.1029      |                | mg/Kg |   | 103  | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09753     |                | mg/Kg |   | 98   | 70 - 130    | 15  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1967      |                | mg/Kg |   | 98   | 70 - 130    | 13  | 35        |
| o-Xylene            | 0.100       | 0.1089      |                | mg/Kg |   | 109  | 70 - 130    | 7   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 153       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 |

Lab Sample ID: 890-5755-1 MS

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: PH01A

Prep Type: Total/NA

Prep Batch: 68962

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1 F2          | 0.0996      | 0.08501   |              | mg/Kg |   | 85   | 70 - 130    |
| Toluene             | <0.00199      | U F1 F2          | 0.0996      | 0.08455   |              | mg/Kg |   | 85   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1 F2          | 0.0996      | 0.09732   |              | mg/Kg |   | 98   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.199       | 0.1891    |              | mg/Kg |   | 95   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 F2          | 0.0996      | 0.09599   |              | mg/Kg |   | 96   | 70 - 130    |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 171       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 |

Lab Sample ID: 890-5755-1 MSD

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: PH01A

Prep Type: Total/NA

Prep Batch: 68962

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1 F2          | 0.0990      | 0.03829    | F1 F2         | mg/Kg |   | 39   | 70 - 130    | 76  | 35        |
| Toluene             | <0.00199      | U F1 F2          | 0.0990      | 0.03103    | F1 F2         | mg/Kg |   | 31   | 70 - 130    | 93  | 35        |
| Ethylbenzene        | <0.00199      | U F1 F2          | 0.0990      | 0.04294    | F1 F2         | mg/Kg |   | 43   | 70 - 130    | 78  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.198       | 0.06600    | F1 F2         | mg/Kg |   | 33   | 70 - 130    | 97  | 35        |
| o-Xylene            | <0.00199      | U F1 F2          | 0.0990      | 0.04725    | F1 F2         | mg/Kg |   | 48   | 70 - 130    | 68  | 35        |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 71        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |

Lab Sample ID: MB 880-68998/5-A

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68998

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 10:32 | 12/13/23 12:07 | 1       |

|                             | MB        | MB        |          |                |                |         |  |  |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|--|--|
| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |
| 4-Bromofluorobenzene (Surr) | 67        | S1-       | 70 - 130 | 12/13/23 10:32 | 12/13/23 12:07 | 1       |  |  |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 12/13/23 10:32 | 12/13/23 12:07 | 1       |  |  |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: MB 880-69014/5-A

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69014

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/13/23 10:58 | 12/13/23 23:16 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 68              | S1-             | 70 - 130 | 12/13/23 10:58 | 12/13/23 23:16 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90              |                 | 70 - 130 | 12/13/23 10:58 | 12/13/23 23:16 | 1       |

Lab Sample ID: LCS 880-69014/1-A

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69014

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.08356       |                  | mg/Kg |   | 84   | 70 - 130       |
| Toluene             | 0.100          | 0.07786       |                  | mg/Kg |   | 78   | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.08620       |                  | mg/Kg |   | 86   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.1762        |                  | mg/Kg |   | 88   | 70 - 130       |
| o-Xylene            | 0.100          | 0.08457       |                  | mg/Kg |   | 85   | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 96               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-69014/2-A

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 69014

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene             | 0.100          | 0.08480        |                   | mg/Kg |   | 85   | 70 - 130       | 1   | 35           |
| Toluene             | 0.100          | 0.08267        |                   | mg/Kg |   | 83   | 70 - 130       | 6   | 35           |
| Ethylbenzene        | 0.100          | 0.09053        |                   | mg/Kg |   | 91   | 70 - 130       | 5   | 35           |
| m-Xylene & p-Xylene | 0.200          | 0.1845         |                   | mg/Kg |   | 92   | 70 - 130       | 5   | 35           |
| o-Xylene            | 0.100          | 0.08822        |                   | mg/Kg |   | 88   | 70 - 130       | 4   | 35           |

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 94                |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105               |                   | 70 - 130 |

Lab Sample ID: 890-5771-A-13-B MS

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69014

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00199         | U F1                | 0.0996         | 0.06935      |                 | mg/Kg |   | 70   | 70 - 130       |
| Toluene | <0.00199         | U F1                | 0.0996         | 0.06316      | F1              | mg/Kg |   | 63   | 70 - 130       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: 890-5771-A-13-B MS

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69014

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00199      | U F1             | 0.0996      | 0.06372   | F1           | mg/Kg |   | 64   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.199       | 0.1271    | F1           | mg/Kg |   | 64   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 F2          | 0.0996      | 0.06044   | F1           | mg/Kg |   | 61   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 90           |              | 70 - 130 |

Lab Sample ID: 890-5771-A-13-C MSD

Matrix: Solid

Analysis Batch: 68975

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 69014

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00199      | U F1             | 0.0990      | 0.06445    | F1            | mg/Kg |   | 65   | 70 - 130    | 7   | 35    |
| Toluene             | <0.00199      | U F1             | 0.0990      | 0.05536    | F1            | mg/Kg |   | 55   | 70 - 130    | 13  | 35    |
| Ethylbenzene        | <0.00199      | U F1             | 0.0990      | 0.04694    | F1            | mg/Kg |   | 47   | 70 - 130    | 30  | 35    |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.198       | 0.08746    | F1 F2         | mg/Kg |   | 44   | 70 - 130    | 37  | 35    |
| o-Xylene            | <0.00199      | U F1 F2          | 0.0990      | 0.04073    | F1 F2         | mg/Kg |   | 41   | 70 - 130    | 39  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 61            | S1-           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: MB 880-69015/5-A

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69015

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 11:03 | 12/13/23 15:02 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112          |              | 70 - 130 | 12/13/23 11:03 | 12/13/23 15:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 141          | S1+          | 70 - 130 | 12/13/23 11:03 | 12/13/23 15:02 | 1       |

Lab Sample ID: MB 880-69028/5-A

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69028

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: MB 880-69028/5-A

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69028

| Analyte        | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| o-Xylene       | <0.00200     | U               | 0.00200 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |
| Xylenes, Total | <0.00400     | U               | 0.00400 | mg/Kg |   | 12/13/23 14:21 | 12/14/23 02:41 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113             |                 | 70 - 130 | 12/13/23 14:21 | 12/14/23 02:41 | 1       |
| 1,4-Difluorobenzene (Surr)  | 141             | S1+             | 70 - 130 | 12/13/23 14:21 | 12/14/23 02:41 | 1       |

Lab Sample ID: LCS 880-69028/1-A

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69028

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.1082        |                  | mg/Kg |   | 108  | 70 - 130       |
| Toluene             | 0.100          | 0.08509       |                  | mg/Kg |   | 85   | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.08159       |                  | mg/Kg |   | 82   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.1863        |                  | mg/Kg |   | 93   | 70 - 130       |
| o-Xylene            | 0.100          | 0.08154       |                  | mg/Kg |   | 82   | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 92               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-69028/2-A

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 69028

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|-------|
| Benzene             | 0.100          | 0.1042         |                   | mg/Kg |   | 104  | 70 - 130       | 4   | 35    |
| Toluene             | 0.100          | 0.08453        |                   | mg/Kg |   | 85   | 70 - 130       | 1   | 35    |
| Ethylbenzene        | 0.100          | 0.07365        |                   | mg/Kg |   | 74   | 70 - 130       | 10  | 35    |
| m-Xylene & p-Xylene | 0.200          | 0.1618         |                   | mg/Kg |   | 81   | 70 - 130       | 14  | 35    |
| o-Xylene            | 0.100          | 0.08573        |                   | mg/Kg |   | 86   | 70 - 130       | 5   | 35    |

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97                |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108               |                   | 70 - 130 |

Lab Sample ID: 890-5747-A-1-C MS

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69028

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene             | <0.00199         | U                   | 0.0996         | 0.08590      |                 | mg/Kg |   | 86   | 70 - 130       |
| Toluene             | <0.00199         | U F1 F2             | 0.0996         | 0.07359      |                 | mg/Kg |   | 74   | 70 - 130       |
| Ethylbenzene        | <0.00199         | U F1                | 0.0996         | 0.07405      |                 | mg/Kg |   | 74   | 70 - 130       |
| m-Xylene & p-Xylene | <0.00398         | U                   | 0.199          | 0.1682       |                 | mg/Kg |   | 84   | 70 - 130       |
| o-Xylene            | <0.00199         | U F1 F2             | 0.0996         | 0.07904      |                 | mg/Kg |   | 79   | 70 - 130       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: 890-5747-A-1-C MS

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69028

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 |

Lab Sample ID: 890-5747-A-1-D MSD

Matrix: Solid

Analysis Batch: 68997

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 69028

| 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      | 0.07294    |               | mg/Kg |   | 74   | 70 - 130    | 16  | 35        |
| Toluene             | <0.00199      | U F1 F2          | 0.0990      | 0.04141    | F1 F2         | mg/Kg |   | 42   | 70 - 130    | 56  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.0990      | 0.06515    | F1            | mg/Kg |   | 66   | 70 - 130    | 13  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.198       | 0.2366     |               | mg/Kg |   | 119  | 70 - 130    | 34  | 35        |
| o-Xylene            | <0.00199      | U F1 F2          | 0.0990      | 0.1315     | F1 F2         | mg/Kg |   | 132  | 70 - 130    | 50  | 35        |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 244       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 |

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

Lab Sample ID: MB 880-68817/1-A

Matrix: Solid

Analysis Batch: 68745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68817

| 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 |   | 12/11/23 12:04 | 12/11/23 20:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 12/11/23 12:04 | 12/11/23 20:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 12/11/23 12:04 | 12/11/23 20:38 | 1       |

|                | MB        | MB        |          |                |                |         |  |  |
|----------------|-----------|-----------|----------|----------------|----------------|---------|--|--|
| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |
| 1-Chlorooctane | 243       | S1+       | 70 - 130 | 12/11/23 12:04 | 12/11/23 20:38 | 1       |  |  |
| o-Terphenyl    | 241       | S1+       | 70 - 130 | 12/11/23 12:04 | 12/11/23 20:38 | 1       |  |  |

Lab Sample ID: LCS 880-68817/2-A

Matrix: Solid

Analysis Batch: 68745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68817

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 880.7      |               | mg/Kg |   | 88   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 957.3      |               | mg/Kg |   | 96   | 70 - 130    |

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 115       |           | 70 - 130 |
| o-Terphenyl    | 130       |           | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: LCSD 880-68817/3-A

Matrix: Solid

Analysis Batch: 68745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68817

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 876.7       |                | mg/Kg |   | 88   | 70 - 130    | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 969.1       |                | mg/Kg |   | 97   | 70 - 130    | 1   | 20        |
|                                      |             |             |                |       |   |      |             |     |           |
|                                      |             | LCSD        | LCSD           |       |   |      |             |     |           |
| Surrogate                            | %Recovery   | Qualifier   | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 98          |             | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 97          |             | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 890-5755-1 MS

Matrix: Solid

Analysis Batch: 68745

Client Sample ID: PH01A

Prep Type: Total/NA

Prep Batch: 68817

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3         | U                | 994         | 989.7     |              | mg/Kg |   | 96   | 70 - 130    |     |           |
| Diesel Range Organics (Over C10-C28) | <50.3         | U F1             | 994         | 1658      | F1           | mg/Kg |   | 164  | 70 - 130    |     |           |
|                                      |               |                  |             |           |              |       |   |      |             |     |           |
|                                      |               | MS               | MS          |           |              |       |   |      |             |     |           |
| Surrogate                            | %Recovery     | Qualifier        | Limits      |           |              |       |   |      |             |     |           |
| 1-Chlorooctane                       | 189           | S1+              | 70 - 130    |           |              |       |   |      |             |     |           |
| o-Terphenyl                          | 141           | S1+              | 70 - 130    |           |              |       |   |      |             |     |           |

Lab Sample ID: 890-5755-1 MSD

Matrix: Solid

Analysis Batch: 68745

Client Sample ID: PH01A

Prep Type: Total/NA

Prep Batch: 68817

| 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 | <50.3         | U                | 994         | 1103       |               | mg/Kg |   | 108  | 70 - 130    | 11  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.3         | U F1             | 994         | 1779       | F1            | mg/Kg |   | 176  | 70 - 130    | 7   | 20        |
|                                      |               |                  |             |            |               |       |   |      |             |     |           |
|                                      |               | MSD              | MSD         |            |               |       |   |      |             |     |           |
| Surrogate                            | %Recovery     | Qualifier        | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 198           | S1+              | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 151           | S1+              | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-68850/1-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68850

| 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 |   | 12/11/23 14:20 | 12/11/23 20:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 12/11/23 14:20 | 12/11/23 20:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 12/11/23 14:20 | 12/11/23 20:38 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: MB 880-68850/1-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68850

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 174             | S1+             | 70 - 130 | 12/11/23 14:20 | 12/11/23 20:38 | 1       |
| o-Terphenyl    | 209             | S1+             | 70 - 130 | 12/11/23 14:20 | 12/11/23 20:38 | 1       |

Lab Sample ID: LCS 880-68850/2-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68850

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1055          |                  | mg/Kg |   | 106  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000           | 934.3         |                  | mg/Kg |   | 93   | 70 - 130       |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 99               |                  | 70 - 130 |
| o-Terphenyl    | 112              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-68850/3-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68850

| Analyte                              | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1086           |                   | mg/Kg |   | 109  | 70 - 130       | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000           | 963.6          |                   | mg/Kg |   | 96   | 70 - 130       | 3   | 20           |

| Surrogate      | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|----------------|-------------------|-------------------|----------|
| 1-Chlorooctane | 110               |                   | 70 - 130 |
| o-Terphenyl    | 127               |                   | 70 - 130 |

Lab Sample ID: 890-5755-21 MS

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: PH10

Prep Type: Total/NA

Prep Batch: 68850

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1            | U                   | 1010           | 903.2        |                 | mg/Kg |   | 85   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <50.1            | U                   | 1010           | 1014         |                 | mg/Kg |   | 97   | 70 - 130       |

| Surrogate      | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|----------------|-----------------|-----------------|----------|
| 1-Chlorooctane | 125             |                 | 70 - 130 |
| o-Terphenyl    | 123             |                 | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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

Lab Sample ID: 890-5755-21 MSD

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: PH10

Prep Type: Total/NA

Prep Batch: 68850

| 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 | <50.1         | U                | 1010        | 917.7      |               | mg/Kg |   | 87   | 70 - 130    | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.1         | U                | 1010        | 1018       |               | mg/Kg |   | 97   | 70 - 130    | 0   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 125           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 121           |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68801/1-A

Matrix: Solid

Analysis Batch: 68836

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 |   |          | 12/11/23 20:54 | 1       |

Lab Sample ID: LCS 880-68801/2-A

Matrix: Solid

Analysis Batch: 68836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 266.3      |               | mg/Kg |   | 107  | 90 - 110    |

Lab Sample ID: LCSD 880-68801/3-A

Matrix: Solid

Analysis Batch: 68836

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         | 265.3       |                | mg/Kg |   | 106  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5755-1 MS

Matrix: Solid

Analysis Batch: 68836

Client Sample ID: PH01A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 2800          | F1               | 1260        | 4197      | F1           | mg/Kg |   | 111  | 90 - 110    |

Lab Sample ID: 890-5755-1 MSD

Matrix: Solid

Analysis Batch: 68836

Client Sample ID: PH01A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 2800          | F1               | 1260        | 4229       | F1            | mg/Kg |   | 113  | 90 - 110    | 1   | 20        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5755-11 MS

Matrix: Solid

Analysis Batch: 68836

Client Sample ID: PH05A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 1030          |                  | 251         | 1263      | 4            | mg/Kg |   | 91   | 90 - 110    |

Lab Sample ID: 890-5755-11 MSD

Matrix: Solid

Analysis Batch: 68836

Client Sample ID: PH05A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 1030          |                  | 251         | 1262       | 4             | mg/Kg |   | 91   | 90 - 110    | 0   | 20        |

Lab Sample ID: MB 880-68803/1-A

Matrix: Solid

Analysis Batch: 68918

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 |   |          | 12/12/23 15:13 | 1       |

Lab Sample ID: LCS 880-68803/2-A

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 260.1      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-68803/3-A

Matrix: Solid

Analysis Batch: 68918

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         | 260.4       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5755-21 MS

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: PH10

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 1540          | F1               | 1240        | 2949      | F1           | mg/Kg |   | 114  | 90 - 110    |

Lab Sample ID: 890-5755-21 MSD

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: PH10

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 1540          | F1               | 1240        | 2952       | F1            | mg/Kg |   | 114  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5755-31 MS

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: PH15

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 478           |                  | 250         | 705.9     |              | mg/Kg |   | 91   | 90 - 110    |

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QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5755-31 MSD

Client Sample ID: PH15

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 68918

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 478           |                  | 250         | 705.2      |               | mg/Kg |   | 91   | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC VOA

## Analysis Batch: 68889

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-21         | PH10                   | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-22         | PH10A                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-23         | PH11                   | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-24         | PH11A                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-25         | PH12                   | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-26         | PH12A                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-27         | PH13A                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-28         | PH13B                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-29         | PH14                   | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-30         | PH14A                  | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-31         | PH15                   | Total/NA  | Solid  | 8021B  | 68939      |
| 890-5755-32         | PH15A                  | Total/NA  | Solid  | 8021B  | 68939      |
| MB 880-68892/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 68892      |
| MB 880-68939/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 68939      |
| LCS 880-68939/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 68939      |
| LCSD 880-68939/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 68939      |
| 880-36696-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 68939      |
| 880-36696-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 68939      |

## Analysis Batch: 68890

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-1         | PH01A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-2         | PH01B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-3         | PH02A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-4         | PH02B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-5         | PH02C                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-6         | PH03A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-7         | PH03B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-8         | PH04A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-9         | PH04B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-10        | PH04C                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-11        | PH05A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-12        | PH05B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-13        | PH06A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-14        | PH06B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-15        | PH07A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-16        | PH07B                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-17        | PH08                   | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-18        | PH08A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-19        | PH09A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-20        | PH09B                  | Total/NA  | Solid  | 8021B  | 68962      |
| MB 880-68922/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 68922      |
| MB 880-68962/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 68962      |
| LCS 880-68962/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 68962      |
| LCSD 880-68962/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-1 MS      | PH01A                  | Total/NA  | Solid  | 8021B  | 68962      |
| 890-5755-1 MSD     | PH01A                  | Total/NA  | Solid  | 8021B  | 68962      |

## Prep Batch: 68892

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68892/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC VOA

## Prep Batch: 68922

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68922/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 68939

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-21         | PH10                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-22         | PH10A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-23         | PH11                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-24         | PH11A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-25         | PH12                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-26         | PH12A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-27         | PH13A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-28         | PH13B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-29         | PH14                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-30         | PH14A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-31         | PH15                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-32         | PH15A                  | Total/NA  | Solid  | 5035   |            |
| MB 880-68939/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-68939/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-68939/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-36696-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-36696-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 68962

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-1         | PH01A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-2         | PH01B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-3         | PH02A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-4         | PH02B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-5         | PH02C                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-6         | PH03A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-7         | PH03B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-8         | PH04A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-9         | PH04B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-10        | PH04C                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-11        | PH05A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-12        | PH05B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-13        | PH06A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-14        | PH06B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-15        | PH07A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-16        | PH07B                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-17        | PH08                   | Total/NA  | Solid  | 5035   |            |
| 890-5755-18        | PH08A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-19        | PH09A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-20        | PH09B                  | Total/NA  | Solid  | 5035   |            |
| MB 880-68962/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-68962/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-68962/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5755-1 MS      | PH01A                  | Total/NA  | Solid  | 5035   |            |
| 890-5755-1 MSD     | PH01A                  | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC VOA

## Analysis Batch: 68975

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-33         | PH16A                  | Total/NA  | Solid  | 8021B  | 69014      |
| MB 880-68998/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 68998      |
| MB 880-69014/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 69014      |
| LCS 880-69014/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 69014      |
| LCSD 880-69014/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 69014      |
| 890-5771-A-13-B MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 69014      |
| 890-5771-A-13-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 69014      |

## Analysis Batch: 68997

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-34        | PH16B                  | Total/NA  | Solid  | 8021B  | 69028      |
| MB 880-69015/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 69015      |
| MB 880-69028/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 69028      |
| LCS 880-69028/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 69028      |
| LCSD 880-69028/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 69028      |
| 890-5747-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 69028      |
| 890-5747-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 69028      |

## Prep Batch: 68998

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68998/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 69012

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5755-1    | PH01A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-2    | PH01B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-3    | PH02A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-4    | PH02B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-5    | PH02C            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-6    | PH03A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-7    | PH03B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-8    | PH04A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-9    | PH04B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-10   | PH04C            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-11   | PH05A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-12   | PH05B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-13   | PH06A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-14   | PH06B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-15   | PH07A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-16   | PH07B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-17   | PH08             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-18   | PH08A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-19   | PH09A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-20   | PH09B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-21   | PH10             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-22   | PH10A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-23   | PH11             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-24   | PH11A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-25   | PH12             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-26   | PH12A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-27   | PH13A            | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC VOA (Continued)

## Analysis Batch: 69012 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5755-28   | PH13B            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-29   | PH14             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-30   | PH14A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-31   | PH15             | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-32   | PH15A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-33   | PH16A            | Total/NA  | Solid  | Total BTEX |            |
| 890-5755-34   | PH16B            | Total/NA  | Solid  | Total BTEX |            |

## Prep Batch: 69014

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-33         | PH16A                  | Total/NA  | Solid  | 5035   |            |
| MB 880-69014/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-69014/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-69014/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5771-A-13-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-5771-A-13-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 69015

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-69015/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 69028

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-34        | PH16B                  | Total/NA  | Solid  | 5035   |            |
| MB 880-69028/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-69028/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-69028/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5747-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-5747-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

## Analysis Batch: 68745

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-5755-1    | PH01A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-2    | PH01B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-3    | PH02A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-4    | PH02B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-5    | PH02C            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-6    | PH03A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-7    | PH03B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-8    | PH04A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-9    | PH04B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-10   | PH04C            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-11   | PH05A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-12   | PH05B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-13   | PH06A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-14   | PH06B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-15   | PH07A            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-16   | PH07B            | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-17   | PH08             | Total/NA  | Solid  | 8015B NM | 68817      |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC Semi VOA (Continued)

## Analysis Batch: 68745 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5755-18        | PH08A                  | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-19        | PH09A                  | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-20        | PH09B                  | Total/NA  | Solid  | 8015B NM | 68817      |
| MB 880-68817/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 68817      |
| LCS 880-68817/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 68817      |
| LCSD 880-68817/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-1 MS      | PH01A                  | Total/NA  | Solid  | 8015B NM | 68817      |
| 890-5755-1 MSD     | PH01A                  | Total/NA  | Solid  | 8015B NM | 68817      |

## Analysis Batch: 68747

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5755-21        | PH10                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-22        | PH10A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-23        | PH11                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-24        | PH11A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-25        | PH12                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-26        | PH12A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-27        | PH13A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-28        | PH13B                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-29        | PH14                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-30        | PH14A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-31        | PH15                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-32        | PH15A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-33        | PH16A                  | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-34        | PH16B                  | Total/NA  | Solid  | 8015B NM | 68850      |
| MB 880-68850/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 68850      |
| LCS 880-68850/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 68850      |
| LCSD 880-68850/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-21 MS     | PH10                   | Total/NA  | Solid  | 8015B NM | 68850      |
| 890-5755-21 MSD    | PH10                   | Total/NA  | Solid  | 8015B NM | 68850      |

## Prep Batch: 68817

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-5755-1    | PH01A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-2    | PH01B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-3    | PH02A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-4    | PH02B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-5    | PH02C            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-6    | PH03A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-7    | PH03B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-8    | PH04A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-9    | PH04B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-10   | PH04C            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-11   | PH05A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-12   | PH05B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-13   | PH06A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-14   | PH06B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-15   | PH07A            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-16   | PH07B            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-17   | PH08             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-18   | PH08A            | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC Semi VOA (Continued)

## Prep Batch: 68817 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5755-19        | PH09A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-20        | PH09B                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-68817/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-68817/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-68817/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-1 MS      | PH01A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-1 MSD     | PH01A                  | Total/NA  | Solid  | 8015NM Prep |            |

## Prep Batch: 68850

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5755-21        | PH10                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-22        | PH10A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-23        | PH11                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-24        | PH11A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-25        | PH12                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-26        | PH12A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-27        | PH13A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-28        | PH13B                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-29        | PH14                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-30        | PH14A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-31        | PH15                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-32        | PH15A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-33        | PH16A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-34        | PH16B                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-68850/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-68850/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-68850/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-21 MS     | PH10                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5755-21 MSD    | PH10                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 68926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5755-1    | PH01A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-2    | PH01B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-3    | PH02A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-4    | PH02B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-5    | PH02C            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-6    | PH03A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-7    | PH03B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-8    | PH04A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-9    | PH04B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-10   | PH04C            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-11   | PH05A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-12   | PH05B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-13   | PH06A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-14   | PH06B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-15   | PH07A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-16   | PH07B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-17   | PH08             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-18   | PH08A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-19   | PH09A            | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## GC Semi VOA (Continued)

## Analysis Batch: 68926 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5755-20   | PH09B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-21   | PH10             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-22   | PH10A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-23   | PH11             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-24   | PH11A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-25   | PH12             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-26   | PH12A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-27   | PH13A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-28   | PH13B            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-29   | PH14             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-30   | PH14A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-31   | PH15             | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-32   | PH15A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-33   | PH16A            | Total/NA  | Solid  | 8015 NM |            |
| 890-5755-34   | PH16B            | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 68801

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5755-1         | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-2         | PH01B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-3         | PH02A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-4         | PH02B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-5         | PH02C                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-6         | PH03A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-7         | PH03B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-8         | PH04A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-9         | PH04B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-10        | PH04C                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-11        | PH05A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-12        | PH05B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-13        | PH06A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-14        | PH06B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-15        | PH07A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-16        | PH07B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-17        | PH08                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-18        | PH08A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-19        | PH09A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-20        | PH09B                  | Soluble   | Solid  | DI Leach |            |
| MB 880-68801/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68801/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68801/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5755-1 MS      | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-1 MSD     | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-11 MS     | PH05A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-11 MSD    | PH05A                  | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 68803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-5755-21   | PH10             | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## HPLC/IC (Continued)

## Leach Batch: 68803 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5755-22        | PH10A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-23        | PH11                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-24        | PH11A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-25        | PH12                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-26        | PH12A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-27        | PH13A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-28        | PH13B                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-29        | PH14                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-30        | PH14A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-31        | PH15                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-32        | PH15A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-33        | PH16A                  | Soluble   | Solid  | DI Leach |            |
| 890-5755-34        | PH16B                  | Soluble   | Solid  | DI Leach |            |
| MB 880-68803/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68803/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68803/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5755-21 MS     | PH10                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-21 MSD    | PH10                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-31 MS     | PH15                   | Soluble   | Solid  | DI Leach |            |
| 890-5755-31 MSD    | PH15                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 68836

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-1         | PH01A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-2         | PH01B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-3         | PH02A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-4         | PH02B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-5         | PH02C                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-6         | PH03A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-7         | PH03B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-8         | PH04A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-9         | PH04B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-10        | PH04C                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-11        | PH05A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-12        | PH05B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-13        | PH06A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-14        | PH06B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-15        | PH07A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-16        | PH07B                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-17        | PH08                   | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-18        | PH08A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-19        | PH09A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-20        | PH09B                  | Soluble   | Solid  | 300.0  | 68801      |
| MB 880-68801/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 68801      |
| LCS 880-68801/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 68801      |
| LCSD 880-68801/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-1 MS      | PH01A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-1 MSD     | PH01A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-11 MS     | PH05A                  | Soluble   | Solid  | 300.0  | 68801      |
| 890-5755-11 MSD    | PH05A                  | Soluble   | Solid  | 300.0  | 68801      |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

## HPLC/IC

## Analysis Batch: 68918

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5755-21        | PH10                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-22        | PH10A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-23        | PH11                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-24        | PH11A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-25        | PH12                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-26        | PH12A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-27        | PH13A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-28        | PH13B                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-29        | PH14                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-30        | PH14A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-31        | PH15                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-32        | PH15A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-33        | PH16A                  | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-34        | PH16B                  | Soluble   | Solid  | 300.0  | 68803      |
| MB 880-68803/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 68803      |
| LCS 880-68803/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 68803      |
| LCSD 880-68803/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-21 MS     | PH10                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-21 MSD    | PH10                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-31 MS     | PH15                   | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-31 MSD    | PH15                   | Soluble   | Solid  | 300.0  | 68803      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH01A****Date Collected: 12/06/23 11:15****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-1****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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 03:50       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 03:50       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 21:43       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.95 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/11/23 21:43       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/11/23 21:12       | CH      | EET MID |

**Client Sample ID: PH01B****Date Collected: 12/06/23 12:30****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-2****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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 04:17       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 04:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 22:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/11/23 22:48       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/11/23 21:31       | CH      | EET MID |

**Client Sample ID: PH02A****Date Collected: 12/06/23 11:40****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-3****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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 04:43       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 04:43       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 23:10       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/11/23 23:10       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/11/23 21:37       | CH      | EET MID |

**Client Sample ID: PH02B****Date Collected: 12/06/23 11:45****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-4****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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 05:09       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 05:09       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH02B****Date Collected: 12/06/23 11:45****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-4****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          |                |              | 68926        | 12/11/23 23:32       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/11/23 23:32       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/11/23 21:43       | CH      | EET MID |

**Client Sample ID: PH02C****Date Collected: 12/06/23 12:35****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-5****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         |     |            | 5.05 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 05:36       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 05:36       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 23:53       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/11/23 23:53       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/11/23 21:49       | CH      | EET MID |

**Client Sample ID: PH03A****Date Collected: 12/06/23 13:25****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-6****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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 06:02       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 06:02       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:14       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 00:14       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:00       | CH      | EET MID |

**Client Sample ID: PH03B****Date Collected: 12/06/23 13:35****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-7****Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 06:28       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 06:28       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:35       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 00:35       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH03B****Date Collected: 12/06/23 13:35****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-7****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        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:07       | CH      | EET MID |

**Client Sample ID: PH04A****Date Collected: 12/06/23 12:15****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-8****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         |     |            | 4.99 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 06:54       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 06:54       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:57       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 00:57       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:13       | CH      | EET MID |

**Client Sample ID: PH04B****Date Collected: 12/06/23 12:20****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-9****Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 07:20       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 07:20       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 01:18       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 01:18       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:19       | CH      | EET MID |

**Client Sample ID: PH04C****Date Collected: 12/06/23 12:25****Date Received: 12/07/23 15:22****Lab Sample ID: 890-5755-10****Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 07:46       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 07:46       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 01:39       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.90 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 01:39       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:25       | CH      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH05A  
Date Collected: 12/06/23 10:40  
Date Received: 12/07/23 15:22

Lab Sample ID: 890-5755-11  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 10:43       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 10:43       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 02:21       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 02:21       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:31       | CH      | EET MID |

Client Sample ID: PH05B  
Date Collected: 12/06/23 10:50  
Date Received: 12/07/23 15:22

Lab Sample ID: 890-5755-12  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 11:09       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 11:09       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 02:42       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 02:42       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:49       | CH      | EET MID |

Client Sample ID: PH06A  
Date Collected: 12/06/23 12:50  
Date Received: 12/07/23 15:22

Lab Sample ID: 890-5755-13  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 11:35       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 11:35       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 03:04       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 03:04       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 12:56       | CH      | EET MID |

Client Sample ID: PH06B  
Date Collected: 12/06/23 13:00  
Date Received: 12/07/23 15:22

Lab Sample ID: 890-5755-14  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 12:02       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 12:02       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH06B****Lab Sample ID: 890-5755-14****Date Collected: 12/06/23 13:00****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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          |                |              | 68926        | 12/12/23 03:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 03:25       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:14       | CH      | EET MID |

**Client Sample ID: PH07A****Lab Sample ID: 890-5755-15****Date Collected: 12/06/23 13:50****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 12:28       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 12:28       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 03:46       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 03:46       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:20       | CH      | EET MID |

**Client Sample ID: PH07B****Lab Sample ID: 890-5755-16****Date Collected: 12/06/23 14:00****Matrix: Solid****Date Received: 12/07/23 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 12:54       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 12:54       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 04:08       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 04:08       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:26       | CH      | EET MID |

**Client Sample ID: PH08****Lab Sample ID: 890-5755-17****Date Collected: 12/06/23 14:05****Matrix: Solid****Date Received: 12/07/23 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 13:21       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 13:21       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 04:33       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.90 g         | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 04:33       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH08****Lab Sample ID: 890-5755-17****Date Collected: 12/06/23 14:05****Matrix: Solid****Date Received: 12/07/23 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:32       | CH      | EET MID |

**Client Sample ID: PH08A****Lab Sample ID: 890-5755-18****Date Collected: 12/06/23 14:15****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68962        | 12/13/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 17:07       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 17:07       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 04:54       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 04:54       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:39       | CH      | EET MID |

**Client Sample ID: PH09A****Lab Sample ID: 890-5755-19****Date Collected: 12/07/23 09:25****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 17:33       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 17:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 05:15       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 05:15       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:45       | CH      | EET MID |

**Client Sample ID: PH09B****Lab Sample ID: 890-5755-20****Date Collected: 12/07/23 09:30****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68962        | 12/12/23 08:16       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 17:59       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 17:59       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 05:36       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 68817        | 12/11/23 12:05       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68745        | 12/12/23 05:36       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 68801        | 12/11/23 11:13       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68836        | 12/12/23 13:51       | CH      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH10**  
**Date Collected: 12/07/23 10:15**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-21**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 04:21       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 04:21       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 21:43       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 21:43       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 15:32       | CH      | EET MID |

**Client Sample ID: PH10A**  
**Date Collected: 12/07/23 10:35**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-22**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 04:41       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 04:41       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 22:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 22:48       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:01       | CH      | EET MID |

**Client Sample ID: PH11**  
**Date Collected: 12/07/23 10:40**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-23**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 06:32       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 06:32       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 23:10       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 23:10       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:07       | CH      | EET MID |

**Client Sample ID: PH11A**  
**Date Collected: 12/07/23 10:55**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-24**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 06:53       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 06:53       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH11A****Lab Sample ID: 890-5755-24****Date Collected: 12/07/23 10:55****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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          |                |              | 68926        | 12/11/23 23:32       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 23:32       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:13       | CH      | EET MID |

**Client Sample ID: PH12****Lab Sample ID: 890-5755-25****Date Collected: 12/07/23 11:00****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 07:13       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 07:13       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/11/23 23:53       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 23:53       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:19       | CH      | EET MID |

**Client Sample ID: PH12A****Lab Sample ID: 890-5755-26****Date Collected: 12/07/23 11:20****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 07:34       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 07:34       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:14       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 00:14       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:38       | CH      | EET MID |

**Client Sample ID: PH13A****Lab Sample ID: 890-5755-27****Date Collected: 12/07/23 12:25****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 07:54       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 07:54       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:35       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 00:35       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH13A****Lab Sample ID: 890-5755-27****Date Collected: 12/07/23 12:25****Matrix: Solid****Date Received: 12/07/23 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:44       | CH      | EET MID |

**Client Sample ID: PH13B****Lab Sample ID: 890-5755-28****Date Collected: 12/07/23 12:30****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 08:15       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 08:15       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 00:57       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.90 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 00:57       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:50       | CH      | EET MID |

**Client Sample ID: PH14****Lab Sample ID: 890-5755-29****Date Collected: 12/07/23 12:55****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 09:42       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 09:42       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 01:18       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 01:18       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 19:56       | CH      | EET MID |

**Client Sample ID: PH14A****Lab Sample ID: 890-5755-30****Date Collected: 12/07/23 13:10****Matrix: Solid****Date Received: 12/07/23 15:22**

| 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         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 10:02       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 10:02       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 01:39       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 01:39       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 20:02       | CH      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

**Client Sample ID: PH15**  
**Date Collected: 12/07/23 12:35**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-31**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 10:23       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 10:23       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 02:21       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 02:21       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 20:08       | CH      | EET MID |

**Client Sample ID: PH15A**  
**Date Collected: 12/07/23 12:45**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-32**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 68939        | 12/12/23 14:14       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68889        | 12/13/23 10:43       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/13/23 10:43       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 02:42       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 02:42       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 20:27       | CH      | EET MID |

**Client Sample ID: PH16A**  
**Date Collected: 12/07/23 10:00**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-33**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 69014        | 12/13/23 10:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68975        | 12/14/23 06:06       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/14/23 06:06       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 03:04       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 03:04       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 68918        | 12/12/23 20:33       | CH      | EET MID |

**Client Sample ID: PH16B**  
**Date Collected: 12/07/23 10:10**  
**Date Received: 12/07/23 15:22**

**Lab Sample ID: 890-5755-34**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 69028        | 12/13/23 14:21       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68997        | 12/14/23 10:48       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69012        | 12/14/23 10:48       | SM      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

Client Sample ID: PH16B

Date Collected: 12/07/23 10:10

Date Received: 12/07/23 15:22

Lab Sample ID: 890-5755-34

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68926        | 12/12/23 03:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68850        | 12/11/23 14:20       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/12/23 03:25       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68918        | 12/12/23 20:51       | 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 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

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 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

| 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 16 TWR 102H

Job ID: 890-5755-1  
SDG: 03C1558292

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5755-1    | PH01A            | Solid  | 12/06/23 11:15 | 12/07/23 15:22 | 4'    |
| 890-5755-2    | PH01B            | Solid  | 12/06/23 12:30 | 12/07/23 15:22 | 8'    |
| 890-5755-3    | PH02A            | Solid  | 12/06/23 11:40 | 12/07/23 15:22 | 3'    |
| 890-5755-4    | PH02B            | Solid  | 12/06/23 11:45 | 12/07/23 15:22 | 4'    |
| 890-5755-5    | PH02C            | Solid  | 12/06/23 12:35 | 12/07/23 15:22 | 8'    |
| 890-5755-6    | PH03A            | Solid  | 12/06/23 13:25 | 12/07/23 15:22 | 4'    |
| 890-5755-7    | PH03B            | Solid  | 12/06/23 13:35 | 12/07/23 15:22 | 8'    |
| 890-5755-8    | PH04A            | Solid  | 12/06/23 12:15 | 12/07/23 15:22 | 4'    |
| 890-5755-9    | PH04B            | Solid  | 12/06/23 12:20 | 12/07/23 15:22 | 6'    |
| 890-5755-10   | PH04C            | Solid  | 12/06/23 12:25 | 12/07/23 15:22 | 8'    |
| 890-5755-11   | PH05A            | Solid  | 12/06/23 10:40 | 12/07/23 15:22 | 2'    |
| 890-5755-12   | PH05B            | Solid  | 12/06/23 10:50 | 12/07/23 15:22 | 4'    |
| 890-5755-13   | PH06A            | Solid  | 12/06/23 12:50 | 12/07/23 15:22 | 2'    |
| 890-5755-14   | PH06B            | Solid  | 12/06/23 13:00 | 12/07/23 15:22 | 4'    |
| 890-5755-15   | PH07A            | Solid  | 12/06/23 13:50 | 12/07/23 15:22 | 2'    |
| 890-5755-16   | PH07B            | Solid  | 12/06/23 14:00 | 12/07/23 15:22 | 4'    |
| 890-5755-17   | PH08             | Solid  | 12/06/23 14:05 | 12/07/23 15:22 | 0.5'  |
| 890-5755-18   | PH08A            | Solid  | 12/06/23 14:15 | 12/07/23 15:22 | 2'    |
| 890-5755-19   | PH09A            | Solid  | 12/07/23 09:25 | 12/07/23 15:22 | 2'    |
| 890-5755-20   | PH09B            | Solid  | 12/07/23 09:30 | 12/07/23 15:22 | 3'    |
| 890-5755-21   | PH10             | Solid  | 12/07/23 10:15 | 12/07/23 15:22 | 0.5'  |
| 890-5755-22   | PH10A            | Solid  | 12/07/23 10:35 | 12/07/23 15:22 | 4'    |
| 890-5755-23   | PH11             | Solid  | 12/07/23 10:40 | 12/07/23 15:22 | 0.5'  |
| 890-5755-24   | PH11A            | Solid  | 12/07/23 10:55 | 12/07/23 15:22 | 2'    |
| 890-5755-25   | PH12             | Solid  | 12/07/23 11:00 | 12/07/23 15:22 | 0.5'  |
| 890-5755-26   | PH12A            | Solid  | 12/07/23 11:20 | 12/07/23 15:22 | 4'    |
| 890-5755-27   | PH13A            | Solid  | 12/07/23 12:25 | 12/07/23 15:22 | 3'    |
| 890-5755-28   | PH13B            | Solid  | 12/07/23 12:30 | 12/07/23 15:22 | 4'    |
| 890-5755-29   | PH14             | Solid  | 12/07/23 12:55 | 12/07/23 15:22 | 0.5'  |
| 890-5755-30   | PH14A            | Solid  | 12/07/23 13:10 | 12/07/23 15:22 | 3'    |
| 890-5755-31   | PH15             | Solid  | 12/07/23 12:35 | 12/07/23 15:22 | 0.5'  |
| 890-5755-32   | PH15A            | Solid  | 12/07/23 12:45 | 12/07/23 15:22 | 2'    |
| 890-5755-33   | PH16A            | Solid  | 12/07/23 10:00 | 12/07/23 15:22 | 4'    |
| 890-5755-34   | PH16B            | Solid  | 12/07/23 10:10 | 12/07/23 15:22 | 8'    |



## Chain of Custody

Environment Testing

Xenco

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Hobbs, NM (575) 392-2540, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 1 of 4

|                  |                      |                         |                      |
|------------------|----------------------|-------------------------|----------------------|
| Project Manager: | Ben Bellin           | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensilium LLC         | Company Name:           | XTO Energy           |
| Address:         | 3122 Nat'l Parks Hwy | Address:                | 3104 E Greene St     |
| City, State ZIP: | Carlsbad, NM 88220   | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 989-854-0852         | Email:                  | bbellin@ensilium.com |

|                   |                    |                                                               |                                                                           |            |  |
|-------------------|--------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|------------|--|
| Project Name:     | PLU16 TWR 102H     | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  |
| Project Number:   | 036550292          | Due Date:                                                     |                                                                           |            |  |
| Project Location: | 33-20755-103-78839 | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |            |  |
| Sampler's Name:   | Meredith Roberts   | Temp Blank:                                                   | Yes No                                                                    |            |  |
| P.O. #:           |                    | Thermometer ID:                                               | W102                                                                      |            |  |
|                   |                    | Correction Factor:                                            | 0.2                                                                       |            |  |
|                   |                    | Temperature Reading:                                          | 3.0                                                                       |            |  |
|                   |                    | Corrected Temperature:                                        | 2.8                                                                       |            |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | ANALYSIS REQUEST | Preservative Codes                                                                                                                                                                                                                                                                |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PH01 PH01A            | S      | 12/6/23      | 1115         | 4'    | G         | 1         |            |                  | None: NO<br>Cool: Cool<br>HCL: HC<br>H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub><br>H <sub>3</sub> PO <sub>4</sub> : HP<br>NaHSO <sub>4</sub> : NABIS<br>Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub><br>Zn Acetate+NaOH: Zn<br>NaOH+Ascorbic Acid: SAPC |
| PH01A PH01B           |        |              | 1230         | 8'    |           |           | BTX        |                  |                                                                                                                                                                                                                                                                                   |
| PH02 PH02A            |        |              | 1140         | 3'    |           |           | BTX        |                  |                                                                                                                                                                                                                                                                                   |
| PH02A PH02B           |        |              | 1145         | 4'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH02B PH02C           |        |              | 1235         | 8'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH03 PH03A            |        |              | 1325         | 4'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH03A PH03B           |        |              | 1335         | 8'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH04 PH04A            |        |              | 1215         | 4'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH04A PH04B           |        |              | 1220         | 6'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |
| PH04B PH04C           |        |              | 1225         | 8'    |           |           |            |                  |                                                                                                                                                                                                                                                                                   |

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1. <i>Meredith Roberts</i>   | <i>albrecht</i>          | 12/22/23  |                              |                          |           |
| 3                            |                          |           |                              |                          |           |
| 5                            |                          |           |                              |                          |           |

Revised Date: 08/25/2020 Rev. 2002



## Chain of Custody

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## Environment Testing

Xenco

Work Order No:

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Project Manager: Ben Bell  
 Company Name: Enselum LLC  
 Address: 3122 Nat'l Parks Hwy  
 City, State ZIP: Carlsbad, NM 88220  
 Phone: 989.854.0852

Bill to: (if different)  
 Company Name: XTO Energy  
 Address: 3104 E Greene St  
 City, State ZIP: Carlsbad, NM 88220  
 Email: bbell@ensolum.com

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 Name: PLU 16 TWR 102H  
 Project Number: 030558992  
 Project Location: 3220155-103-18039  
 Sampler's Name: Meredith Roberts  
 PO #:   
 SAMPLE RECEIPT  
 Samples Received Intact: Yes No  
 Cooler Custody Seals: Yes No N/A  
 Sample Custody Seals: Yes No N/A  
 Total Containers:   
 Turn Around: ☒ Routine ☐ Rush  
 Due Date:   
 TAT starts the day received by the lab, if received by 4:30pm  
 Temp Blank: Yes No  
 Thermometer ID:   
 Correction Factor:   
 Temperature Reading:   
 Corrected Temperature:   
 Wet Ice: Yes No  
 Parameters:   
 Pres. Code:   
 ANALYSIS REQUEST  
 None: NO  
 Cool: Cool  
 HCL: HC  
 H<sub>2</sub>SO<sub>4</sub>: H<sub>2</sub>  
 H<sub>3</sub>PO<sub>4</sub>: HP  
 NaHSO<sub>4</sub>: NABIS  
 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub>  
 Zn Acetate+NaOH: Zn  
 NaOH+Ascorbic Acid: SAPC  
 Preservative Codes:   
 DI Water: H<sub>2</sub>O  
 MeOH: Me  
 HNO<sub>3</sub>: HN  
 NaOH: Na  
 Sample Comments:   
 Incident #:   
 PENDING  
 Cost Center:   
 PENDING  
 mroberts@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 SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470 /7471

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Relinquished by: (Signature) *theater* Received by: (Signature) *alshu* Date/Time 15:22 12/18/2023  
 Relinquished by: (Signature) Received by: (Signature) Date/Time  
 Relinquished by: (Signature) Received by: (Signature) Date/Time

Revised Date: 08/25/2020 Rev. 20202



## Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing  
Xenco

Work Order No: \_\_\_\_\_

www.xenco.com Page 3 of 4

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: Envision, LLC

Address: 3122 Nat'l Parks Hwy

City, State ZIP: Carlsbad, NM 88220

Phone: 989.854.0852

Bill to: (if different)

Company Name: Garrett Green

Address: 7304 E Greene St

City, State ZIP: Carlsbad, NM 88220

Email: bbelli@envision.com

Project Name: PLU 16 TWR 1024

Project Number: 03C1558292

Project Location: 32.20155, -103.78839

Sampler's Name: Meredith Roberts

PO #: \_\_\_\_\_

SAMPLE RECEIPT

Samples Received Intact: Yes ☒ No ☐ Thermometer ID: \_\_\_\_\_

Cooler Custody Seals: Yes ☒ No ☐ Correction Factor: \_\_\_\_\_

Sample Custody Seals: Yes ☒ No ☐ Temperature Reading: \_\_\_\_\_

Total Containers: \_\_\_\_\_

Turn Around: ☒ Routine ☐ Rush

Due Date: \_\_\_\_\_

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

Temp Blank: Yes ☒ No ☐ Wet Ice: Yes ☐ No ☒

Corrected Temperature: \_\_\_\_\_

Parameters

Pres. Code

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H<sub>2</sub>O

Cool: Cool MeOH: Me

HCL: HC HNO<sub>3</sub>: HN

H<sub>2</sub>SO<sub>4</sub>: H<sub>2</sub> NaOH: Na

H<sub>3</sub>PO<sub>4</sub>: HP

NaHSO<sub>4</sub>: NABIS

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub>

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|-----------------|
| PH10                  | S      | 12/1/23      | 1015         | 0.5'  | G         | 1         | Incident#:      |
| PH10A                 |        |              | 1035         | 4'    |           |           | PENDING         |
| PH11                  |        |              | 1040         | 0.5'  |           |           |                 |
| PH11A                 |        |              | 1055         | 2'    |           |           |                 |
| PH12                  |        |              | 1100         | 0.5'  |           |           | Cost Center:    |
| PH12A                 |        |              | 1120         | 4'    |           |           | PENDING         |
| PH13                  | PH13A  |              | 1225         | 3'    |           |           |                 |
| PH13A                 | PH13B  |              | 1230         | 4'    |           |           |                 |
| PH14                  |        |              | 1255         | 0.5'  |           |           |                 |
| PH14A                 |        |              | 1310         | 3'    |           |           |                 |

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<sub>2</sub> Na Sr Ti Sn U V Zn

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

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Relinquished by: (Signature) adrian Received by: (Signature) \_\_\_\_\_ Date/Time 15:22 12/1

3

5

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## Chain of Custody

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**Environment Testing**  
**Xenco**

**Work Order No:**

Page 4 of 4  
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|   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 | <i>meads</i>                 | <i>clabin</i>            | 15:22     |                              |                          |           |
| 2 |                              |                          |           |                              |                          |           |
| 3 |                              |                          |           |                              |                          |           |
| 4 |                              |                          |           |                              |                          |           |
| 5 |                              |                          |           |                              |                          |           |
| 6 |                              |                          |           |                              |                          |           |

Revised Date 08/25/2020 Rev 20202



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5755-1

SDG Number: 03C1558292

Login Number: 5755

List Number: 1

Creator: Lopez, Abraham

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: 890-5755-1

SDG Number: 03C1558292

Login Number: 5755

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/11/23 08:54 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

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/18/2023 9:06:21 AM Revision 1

## JOB DESCRIPTION

PLU 16 TWR 102H  
03C15582292

## JOB NUMBER

890-5757-1

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](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

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12/18/2023 9:06:21 AM  
Revision 1

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Laboratory Job ID: 890-5757-1  
SDG: 03C15582292

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Client Sample Results . . . . .  | 7  |
| Surrogate Summary . . . . .      | 15 |
| QC Sample Results . . . . .      | 16 |
| QC Association Summary . . . . . | 22 |
| Lab Chronicle . . . . .          | 26 |
| Certification Summary . . . . .  | 30 |
| Method Summary . . . . .         | 31 |
| Sample Summary . . . . .         | 32 |
| Chain of Custody . . . . .       | 33 |
| Receipt Checklists . . . . .     | 34 |

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

Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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



## Case Narrative

Client: Ensolum  
Project: PLU 16 TWR 102H

Job ID: 890-5757-1

Job ID: 890-5757-1

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**Job Narrative**  
**890-5757-1**

REVISION

The report being provided is a revision of the original report sent on 12/15/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID edits. Revision needed.

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 12/8/2023 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-5757-1), PH02 (890-5757-2), PH03 (890-5757-3), PH04 (890-5757-4), PH05 (890-5757-5), PH06 (890-5757-6), PH07 (890-5757-7), PH09 (890-5757-8), PH13 (890-5757-9) and PH16 (890-5757-10).

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-69034/1-A) and (LCSD 880-69034/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-5757-1), PH03 (890-5757-3), PH06 (890-5757-6), PH07 (890-5757-7), PH09 (890-5757-8), PH13 (890-5757-9), PH16 (890-5757-10), (890-5757-A-1-D MS) and (890-5757-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-68762 and analytical batch 880-68747 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-5757-3), PH04 (890-5757-4), PH13 (890-5757-9), PH16 (890-5757-10) and (890-5758-A-21-C 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 samples were outside control limits: (CCV 880-68747/20), (CCV 880-68747/31) and (CCV 880-68747/5). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68803 and analytical batch 880-68918 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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Case Narrative

Client: Ensolum  
Project: PLU 16 TWR 102H

Job ID: 890-5757-1

Job ID: 890-5757-1 (Continued)

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

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Client Sample ID: PH01

Lab Sample ID: 890-5757-1

Date Collected: 12/06/23 10:55

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 148       | S1+       | 70 - 130 | 12/13/23 15:17 | 12/13/23 21:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 | 12/13/23 15:17 | 12/13/23 21:57 | 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 |   |          | 12/13/23 21:57 | 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 |   |          | 12/11/23 16:38 | 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 | <49.6  | U         | 49.6 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 16:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 16:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 16:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 108       |           | 70 - 130 | 12/11/23 09:44 | 12/11/23 16:38 | 1       |
| o-Terphenyl    | 113       |           | 70 - 130 | 12/11/23 09:44 | 12/11/23 16:38 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2930   |           | 24.9 | mg/Kg |   |          | 12/11/23 18:56 | 5       |

Client Sample ID: PH02

Lab Sample ID: 890-5757-2

Date Collected: 12/06/23 11:25

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 125       |           | 70 - 130 | 12/13/23 15:17 | 12/13/23 22:23 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Client Sample ID: PH02

Lab Sample ID: 890-5757-2

Date Collected: 12/06/23 11:25

Matrix: Solid

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 90        |           | 70 - 130 | 12/13/23 15:17 | 12/13/23 22:23 | 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 |   |          | 12/13/23 22:23 | 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 |   |          | 12/11/23 17:00 | 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 |   | 12/11/23 09:44 | 12/11/23 17:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3     | U         | 50.3     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 111       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:00 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:00 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4380   |           | 24.9 | mg/Kg |   |          | 12/11/23 19:03 | 5       |

Client Sample ID: PH03

Lab Sample ID: 890-5757-3

Date Collected: 12/06/23 13:05

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 22:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 156       | S1+       | 70 - 130 | 12/13/23 15:17 | 12/13/23 22:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 66        | S1-       | 70 - 130 | 12/13/23 15:17 | 12/13/23 22:49 | 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 |   |          | 12/13/23 22:49 | 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 |   |          | 12/11/23 17:22 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## Client Sample ID: PH03

Lab Sample ID: 890-5757-3

Date Collected: 12/06/23 13:05

Matrix: Solid

Date Received: 12/08/23 08:10

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 | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:22 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 135       | S1+       | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:22 | 1       |
| o-Terphenyl                          | 143       | S1+       | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:22 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3490   |           | 25.0 | mg/Kg |   |          | 12/12/23 20:57 | 5       |

## Client Sample ID: PH04

Lab Sample ID: 890-5757-4

Date Collected: 12/06/23 11:55

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/13/23 23:15 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/13/23 23:15 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 55.9   |           | 50.4 | mg/Kg |   |          | 12/11/23 17:43 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:43 | 1       |
| Diesel Range Organics (Over C10-C28) | 55.9      |           | 50.4     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 17:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 123       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:43 | 1       |
| o-Terphenyl                          | 136       | S1+       | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 17:43 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## Client Sample ID: PH04

Date Collected: 12/06/23 11:55

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

## Lab Sample ID: 890-5757-4

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5260   |           | 49.8 | mg/Kg |   |          | 12/12/23 21:03 | 10      |

## Client Sample ID: PH05

Date Collected: 12/06/23 10:30

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

## Lab Sample ID: 890-5757-5

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 |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/13/23 23:41 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 12/13/23 23:41 | 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 |   |          | 12/11/23 18:05 | 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 | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:05 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:05 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:05 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 18:05 | 1       |
| o-Terphenyl                          | 127       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 18:05 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3510   |           | 24.9 | mg/Kg |   |          | 12/12/23 21:10 | 5       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Client Sample ID: PH06

Lab Sample ID: 890-5757-6

Date Collected: 12/06/23 12:40

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 151       | S1+       | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:07 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/14/23 00:07 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 12/11/23 18:27 | 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 | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:27 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109       |           | 70 - 130 | 12/11/23 09:44 | 12/11/23 18:27 | 1       |
| o-Terphenyl    | 120       |           | 70 - 130 | 12/11/23 09:44 | 12/11/23 18:27 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4110   |           | 24.8 | mg/Kg |   |          | 12/12/23 21:16 | 5       |

Client Sample ID: PH07

Lab Sample ID: 890-5757-7

Date Collected: 12/06/23 13:40

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 143       | S1+       | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:32 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Client Sample ID: PH07

Lab Sample ID: 890-5757-7

Date Collected: 12/06/23 13:40

Matrix: Solid

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 67        | S1-       | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:32 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 12/14/23 00:32 | 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 |   |          | 12/11/23 18:48 | 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 |   | 12/11/23 09:44 | 12/11/23 18:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 18:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 18:48 | 1       |
| o-Terphenyl                          | 115       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 18:48 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4220   |           | 25.0 | mg/Kg |   |          | 12/12/23 21:22 | 5       |

Client Sample ID: PH09

Lab Sample ID: 890-5757-8

Date Collected: 12/07/23 09:15

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/13/23 15:17 | 12/14/23 00:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 12/13/23 15:17 | 12/14/23 00:58 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 12/14/23 00:58 | 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 |   |          | 12/11/23 19:10 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## Client Sample ID: PH09

Lab Sample ID: 890-5757-8

Date Collected: 12/07/23 09:15

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/11/23 09:44 | 12/11/23 19:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 104       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:10 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:10 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2620   |           | 25.3 | mg/Kg |   |          | 12/12/23 21:28 | 5       |

## Client Sample ID: PH13

Lab Sample ID: 890-5757-9

Date Collected: 12/07/23 12:10

Matrix: Solid

Date Received: 12/08/23 08:10

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 |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 138       | S1+       | 70 - 130 |       |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 79        |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/14/23 01:24 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/14/23 01:24 | 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 |   |          | 12/11/23 19:32 | 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 | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 128       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:32 | 1       |
| o-Terphenyl                          | 139       | S1+       | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:32 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## Client Sample ID: PH13

Date Collected: 12/07/23 12:10

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

## Lab Sample ID: 890-5757-9

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 219    |           | 5.04 | mg/Kg |   |          | 12/12/23 14:54 | 1       |

## Client Sample ID: PH16

Date Collected: 12/07/23 09:40

Date Received: 12/08/23 08:10

Sample Depth: 0.5'

## Lab Sample ID: 890-5757-10

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 |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 141       | S1+       | 70 - 130 |       |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |       |   | 12/13/23 15:17 | 12/14/23 01:50 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 12/14/23 01:50 | 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 |   |          | 12/11/23 19:54 | 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 | <49.9     | U         | 49.9     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 12/11/23 09:44 | 12/11/23 19:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 124       |           | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:54 | 1       |
| o-Terphenyl                          | 136       | S1+       | 70 - 130 |       |   | 12/11/23 09:44 | 12/11/23 19:54 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5700   |           | 50.0 | mg/Kg |   |          | 12/12/23 15:18 | 10      |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | BFB1<br>(70-130) | DFBZ1<br>(70-130) |
|--------------------|------------------------|------------------|-------------------|
| 890-5757-1         | PH01                   | 148 S1+          | 117               |
| 890-5757-1 MS      | PH01                   | 179 S1+          | 82                |
| 890-5757-1 MSD     | PH01                   | 167 S1+          | 78                |
| 890-5757-2         | PH02                   | 125              | 90                |
| 890-5757-3         | PH03                   | 156 S1+          | 66 S1-            |
| 890-5757-4         | PH04                   | 113              | 93                |
| 890-5757-5         | PH05                   | 118              | 91                |
| 890-5757-6         | PH06                   | 151 S1+          | 112               |
| 890-5757-7         | PH07                   | 143 S1+          | 67 S1-            |
| 890-5757-8         | PH09                   | 139 S1+          | 104               |
| 890-5757-9         | PH13                   | 138 S1+          | 79                |
| 890-5757-10        | PH16                   | 141 S1+          | 96                |
| LCS 880-69034/1-A  | Lab Control Sample     | 149 S1+          | 78                |
| LCSD 880-69034/2-A | Lab Control Sample Dup | 140 S1+          | 82                |
| MB 880-68962/5-A   | Method Blank           | 87               | 84                |
| MB 880-69034/5-A   | Method Blank           | 71               | 86                |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | 1CO1<br>(70-130) | OTPH1<br>(70-130) |
|---------------------|------------------------|------------------|-------------------|
| 890-5757-1          | PH01                   | 108              | 113               |
| 890-5757-2          | PH02                   | 111              | 120               |
| 890-5757-3          | PH03                   | 135 S1+          | 143 S1+           |
| 890-5757-4          | PH04                   | 123              | 136 S1+           |
| 890-5757-5          | PH05                   | 118              | 127               |
| 890-5757-6          | PH06                   | 109              | 120               |
| 890-5757-7          | PH07                   | 105              | 115               |
| 890-5757-8          | PH09                   | 104              | 120               |
| 890-5757-9          | PH13                   | 128              | 139 S1+           |
| 890-5757-10         | PH16                   | 124              | 136 S1+           |
| 890-5758-A-21-C MS  | Matrix Spike           | 132 S1+          | 129               |
| 890-5758-A-21-D MSD | Matrix Spike Duplicate | 120              | 120               |
| LCS 880-68762/2-A   | Lab Control Sample     | 95               | 109               |
| LCSD 880-68762/3-A  | Lab Control Sample Dup | 105              | 122               |
| MB 880-68762/1-A    | Method Blank           | 164 S1+          | 196 S1+           |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

Lab Sample ID: MB 880-68962/5-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68962

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/12/23 08:16 | 12/13/23 03:24 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87           |              | 70 - 130 | 12/12/23 08:16 | 12/13/23 03:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84           |              | 70 - 130 | 12/12/23 08:16 | 12/13/23 03:24 | 1       |

Lab Sample ID: MB 880-69034/5-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69034

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/13/23 15:17 | 12/13/23 21:30 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 71           |              | 70 - 130 | 12/13/23 15:17 | 12/13/23 21:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 12/13/23 15:17 | 12/13/23 21:30 | 1       |

Lab Sample ID: LCS 880-69034/1-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69034

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09311    |               | mg/Kg |   | 93   | 70 - 130    |
| Toluene             | 0.100       | 0.1065     |               | mg/Kg |   | 107  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09859    |               | mg/Kg |   | 99   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2129     |               | mg/Kg |   | 106  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1130     |               | mg/Kg |   | 113  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 149           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 78            |               | 70 - 130 |

Lab Sample ID: LCSD 880-69034/2-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 69034

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08514     |                | mg/Kg |   | 85   | 70 - 130    | 9   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

Lab Sample ID: LCSD 880-69034/2-A

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 69034

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.09459     |                | mg/Kg |   | 95   | 70 - 130    | 12  | 35        |
| Ethylbenzene        | 0.100       | 0.08757     |                | mg/Kg |   | 88   | 70 - 130    | 12  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1858      |                | mg/Kg |   | 93   | 70 - 130    | 14  | 35        |
| o-Xylene            | 0.100       | 0.09335     |                | mg/Kg |   | 93   | 70 - 130    | 19  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 140            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 82             |                | 70 - 130 |

Lab Sample ID: 890-5757-1 MS

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 69034

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U                | 0.0996      | 0.1102    |              | mg/Kg |   | 111  | 70 - 130    |
| Toluene             | <0.00199      | U                | 0.0996      | 0.1160    |              | mg/Kg |   | 116  | 70 - 130    |
| Ethylbenzene        | <0.00199      | U                | 0.0996      | 0.1200    |              | mg/Kg |   | 120  | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.199       | 0.2285    |              | mg/Kg |   | 115  | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.0996      | 0.1114    |              | mg/Kg |   | 112  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 179          | S1+          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 82           |              | 70 - 130 |

Lab Sample ID: 890-5757-1 MSD

Matrix: Solid

Analysis Batch: 68890

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 69034

| 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      | 0.1038     |               | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |
| Toluene             | <0.00199      | U                | 0.0990      | 0.1150     |               | mg/Kg |   | 116  | 70 - 130    | 1   | 35        |
| Ethylbenzene        | <0.00199      | U                | 0.0990      | 0.1170     |               | mg/Kg |   | 118  | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.198       | 0.2240     |               | mg/Kg |   | 113  | 70 - 130    | 2   | 35        |
| o-Xylene            | <0.00199      | U                | 0.0990      | 0.1123     |               | mg/Kg |   | 113  | 70 - 130    | 1   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 167           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 78            |               | 70 - 130 |

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

Lab Sample ID: MB 880-68762/1-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68762

| 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 |   | 12/11/23 07:44 | 12/11/23 08:12 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

Lab Sample ID: MB 880-68762/1-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68762

| 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 |   | 12/11/23 07:44 | 12/11/23 08:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 12/11/23 07:44 | 12/11/23 08:12 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 164          | S1+          | 70 - 130 |       |   | 12/11/23 07:44 | 12/11/23 08:12 | 1       |
| o-Terphenyl                          | 196          | S1+          | 70 - 130 |       |   | 12/11/23 07:44 | 12/11/23 08:12 | 1       |

Lab Sample ID: LCS 880-68762/2-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68762

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 1044          |               | mg/Kg |   | 104  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000          | 922.7         |               | mg/Kg |   | 92   | 70 - 130    |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |             |
| 1-Chlorooctane                       | 95            |               | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 109           |               | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-68762/3-A

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68762

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1047           |                | mg/Kg |   | 105  | 70 - 130    | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 931.6          |                | mg/Kg |   | 93   | 70 - 130    | 1   | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 105            |                | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 122            |                | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 890-5758-A-21-C MS

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68762

| 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        | 968.7     |              | mg/Kg |   | 94   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 1000        | 1057      |              | mg/Kg |   | 101  | 70 - 130    |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |             |
| 1-Chlorooctane                       | 132           | S1+              | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 129           |                  | 70 - 130    |           |              |       |   |      |             |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

Lab Sample ID: 890-5758-A-21-D MSD

Matrix: Solid

Analysis Batch: 68747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68762

| 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        | 876.3      |               | mg/Kg |   | 85   | 70 - 130    | 10  | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 1000        | 979.0      |               | mg/Kg |   | 93   | 70 - 130    | 8   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 120           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 120           |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68794/1-A

Matrix: Solid

Analysis Batch: 68825

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 |   |          | 12/11/23 14:35 | 1       |

Lab Sample ID: LCS 880-68794/2-A

Matrix: Solid

Analysis Batch: 68825

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 255.4      |               | mg/Kg |   | 102  | 90 - 110    |

Lab Sample ID: LCSD 880-68794/3-A

Matrix: Solid

Analysis Batch: 68825

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         | 253.3       |                | mg/Kg |   | 101  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-5744-A-2-C MS

Matrix: Solid

Analysis Batch: 68825

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 | 185           |                  | 249         | 434.6     |              | mg/Kg |   | 100  | 90 - 110    |

Lab Sample ID: 890-5744-A-2-D MSD

Matrix: Solid

Analysis Batch: 68825

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 185           |                  | 249         | 432.4      |               | mg/Kg |   | 100  | 90 - 110    | 1   | 20        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-68803/1-A

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 12/12/23 15:13 | 1       |

Lab Sample ID: LCS 880-68803/2-A

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 260.1         |                  | mg/Kg |   | 104  | 90 - 110       |

Lab Sample ID: LCSD 880-68803/3-A

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 260.4          |                   | mg/Kg |   | 104  | 90 - 110       | 0   | 20           |

Lab Sample ID: 890-5755-A-21-B MS

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 1540             | F1                  | 1240           | 2949         | F1              | mg/Kg |   | 114  | 90 - 110       |

Lab Sample ID: 890-5755-A-21-C MSD

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 1540             | F1                  | 1240           | 2952          | F1               | mg/Kg |   | 114  | 90 - 110       | 0   | 20           |

Lab Sample ID: 890-5755-A-31-B MS

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 478              |                     | 250            | 705.9        |                 | mg/Kg |   | 91   | 90 - 110       |

Lab Sample ID: 890-5755-A-31-C MSD

Matrix: Solid

Analysis Batch: 68918

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 478              |                     | 250            | 705.2         |                  | mg/Kg |   | 91   | 90 - 110       | 0   | 20           |

Lab Sample ID: MB 880-68838/1-A

Matrix: Solid

Analysis Batch: 68919

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 12/12/23 14:31 | 1       |

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QC Sample Results

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

Method: 300.0 - Anions, Ion Chromatography

|                                  |  |  |             |                                      |               |       |   |      |             |  |  |
|----------------------------------|--|--|-------------|--------------------------------------|---------------|-------|---|------|-------------|--|--|
| Lab Sample ID: LCS 880-68838/2-A |  |  |             | Client Sample ID: Lab Control Sample |               |       |   |      |             |  |  |
| Matrix: Solid                    |  |  |             | Prep Type: Soluble                   |               |       |   |      |             |  |  |
| Analysis Batch: 68919            |  |  |             |                                      |               |       |   |      |             |  |  |
| Analyte                          |  |  | Spike Added | LCS Result                           | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
| Chloride                         |  |  | 250         | 251.2                                |               | mg/Kg |   | 100  | 90 - 110    |  |  |

|                                   |  |  |             |                                          |                |       |   |      |             |     |           |
|-----------------------------------|--|--|-------------|------------------------------------------|----------------|-------|---|------|-------------|-----|-----------|
| Lab Sample ID: LCSD 880-68838/3-A |  |  |             | Client Sample ID: Lab Control Sample Dup |                |       |   |      |             |     |           |
| Matrix: Solid                     |  |  |             | Prep Type: Soluble                       |                |       |   |      |             |     |           |
| Analysis Batch: 68919             |  |  |             |                                          |                |       |   |      |             |     |           |
| Analyte                           |  |  | Spike Added | LCSD Result                              | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride                          |  |  | 250         | 250.6                                    |                | mg/Kg |   | 100  | 90 - 110    | 0   | 20        |

|                              |               |                  |             |                        |              |       |   |      |             |  |  |
|------------------------------|---------------|------------------|-------------|------------------------|--------------|-------|---|------|-------------|--|--|
| Lab Sample ID: 890-5757-9 MS |               |                  |             | Client Sample ID: PH13 |              |       |   |      |             |  |  |
| Matrix: Solid                |               |                  |             | Prep Type: Soluble     |              |       |   |      |             |  |  |
| Analysis Batch: 68919        |               |                  |             |                        |              |       |   |      |             |  |  |
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result              | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
| Chloride                     | 219           |                  | 252         | 461.7                  |              | mg/Kg |   | 96   | 90 - 110    |  |  |

|                               |               |                  |             |                        |               |       |   |      |             |     |           |
|-------------------------------|---------------|------------------|-------------|------------------------|---------------|-------|---|------|-------------|-----|-----------|
| Lab Sample ID: 890-5757-9 MSD |               |                  |             | Client Sample ID: PH13 |               |       |   |      |             |     |           |
| Matrix: Solid                 |               |                  |             | Prep Type: Soluble     |               |       |   |      |             |     |           |
| Analysis Batch: 68919         |               |                  |             |                        |               |       |   |      |             |     |           |
| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MSD Result             | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride                      | 219           |                  | 252         | 461.1                  |               | mg/Kg |   | 96   | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## GC VOA

## Analysis Batch: 68890

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5757-1         | PH01                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-2         | PH02                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-3         | PH03                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-4         | PH04                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-5         | PH05                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-6         | PH06                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-7         | PH07                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-8         | PH09                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-9         | PH13                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-10        | PH16                   | Total/NA  | Solid  | 8021B  | 69034      |
| MB 880-68962/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 68962      |
| MB 880-69034/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 69034      |
| LCS 880-69034/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 69034      |
| LCSD 880-69034/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-1 MS      | PH01                   | Total/NA  | Solid  | 8021B  | 69034      |
| 890-5757-1 MSD     | PH01                   | Total/NA  | Solid  | 8021B  | 69034      |

## Prep Batch: 68962

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68962/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 69034

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5757-1         | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-2         | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-3         | PH03                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-4         | PH04                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-5         | PH05                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-6         | PH06                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-7         | PH07                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-8         | PH09                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-9         | PH13                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-10        | PH16                   | Total/NA  | Solid  | 5035   |            |
| MB 880-69034/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-69034/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-69034/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5757-1 MS      | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-5757-1 MSD     | PH01                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 69117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5757-1    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-2    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-3    | PH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-4    | PH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-5    | PH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-6    | PH06             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-7    | PH07             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-8    | PH09             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-9    | PH13             | Total/NA  | Solid  | Total BTEX |            |
| 890-5757-10   | PH16             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## GC Semi VOA

## Analysis Batch: 68747

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5757-1          | PH01                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-2          | PH02                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-3          | PH03                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-4          | PH04                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-5          | PH05                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-6          | PH06                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-7          | PH07                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-8          | PH09                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-9          | PH13                   | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5757-10         | PH16                   | Total/NA  | Solid  | 8015B NM | 68762      |
| MB 880-68762/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 68762      |
| LCS 880-68762/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 68762      |
| LCSD 880-68762/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5758-A-21-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 68762      |
| 890-5758-A-21-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 68762      |

## Prep Batch: 68762

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-5757-1          | PH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-2          | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-3          | PH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-4          | PH04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-5          | PH05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-6          | PH06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-7          | PH07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-8          | PH09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-9          | PH13                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5757-10         | PH16                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-68762/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-68762/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-68762/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5758-A-21-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5758-A-21-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 68925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5757-1    | PH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-2    | PH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-3    | PH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-4    | PH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-5    | PH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-6    | PH06             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-7    | PH07             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-8    | PH09             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-9    | PH13             | Total/NA  | Solid  | 8015 NM |            |
| 890-5757-10   | PH16             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## HPLC/IC

## Leach Batch: 68794

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5757-1         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-2         | PH02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-68794/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68794/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68794/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5744-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-5744-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 68803

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5757-3          | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-4          | PH04                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-5          | PH05                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-6          | PH06                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-7          | PH07                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-8          | PH09                   | Soluble   | Solid  | DI Leach |            |
| MB 880-68803/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68803/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68803/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5755-A-21-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-5755-A-21-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 890-5755-A-31-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-5755-A-31-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 68825

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5757-1         | PH01                   | Soluble   | Solid  | 300.0  | 68794      |
| 890-5757-2         | PH02                   | Soluble   | Solid  | 300.0  | 68794      |
| MB 880-68794/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 68794      |
| LCS 880-68794/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 68794      |
| LCSD 880-68794/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 68794      |
| 890-5744-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 68794      |
| 890-5744-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 68794      |

## Leach Batch: 68838

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5757-9         | PH13                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-10        | PH16                   | Soluble   | Solid  | DI Leach |            |
| MB 880-68838/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68838/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68838/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5757-9 MS      | PH13                   | Soluble   | Solid  | DI Leach |            |
| 890-5757-9 MSD     | PH13                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 68918

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-5757-3    | PH03             | Soluble   | Solid  | 300.0  | 68803      |
| 890-5757-4    | PH04             | Soluble   | Solid  | 300.0  | 68803      |
| 890-5757-5    | PH05             | Soluble   | Solid  | 300.0  | 68803      |
| 890-5757-6    | PH06             | Soluble   | Solid  | 300.0  | 68803      |
| 890-5757-7    | PH07             | Soluble   | Solid  | 300.0  | 68803      |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

## HPLC/IC (Continued)

## Analysis Batch: 68918 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5757-8          | PH09                   | Soluble   | Solid  | 300.0  | 68803      |
| MB 880-68803/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 68803      |
| LCS 880-68803/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 68803      |
| LCSD 880-68803/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-A-21-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-A-21-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-A-31-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 68803      |
| 890-5755-A-31-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 68803      |

## Analysis Batch: 68919

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5757-9         | PH13                   | Soluble   | Solid  | 300.0  | 68838      |
| 890-5757-10        | PH16                   | Soluble   | Solid  | 300.0  | 68838      |
| MB 880-68838/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 68838      |
| LCS 880-68838/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 68838      |
| LCSD 880-68838/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 68838      |
| 890-5757-9 MS      | PH13                   | Soluble   | Solid  | 300.0  | 68838      |
| 890-5757-9 MSD     | PH13                   | Soluble   | Solid  | 300.0  | 68838      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

**Client Sample ID: PH01****Lab Sample ID: 890-5757-1****Date Collected: 12/06/23 10:55****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 21:57       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/13/23 21:57       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 16:38       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 16:38       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 68794        | 12/11/23 10:29       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68825        | 12/11/23 18:56       | CH      | EET MID |

**Client Sample ID: PH02****Lab Sample ID: 890-5757-2****Date Collected: 12/06/23 11:25****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 22:23       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/13/23 22:23       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 17:00       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 17:00       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 68794        | 12/11/23 10:29       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68825        | 12/11/23 19:03       | CH      | EET MID |

**Client Sample ID: PH03****Lab Sample ID: 890-5757-3****Date Collected: 12/06/23 13:05****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 22:49       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/13/23 22:49       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 17:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 17:22       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 20:57       | CH      | EET MID |

**Client Sample ID: PH04****Lab Sample ID: 890-5757-4****Date Collected: 12/06/23 11:55****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 23:15       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/13/23 23:15       | SM      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

**Client Sample ID: PH04****Lab Sample ID: 890-5757-4****Date Collected: 12/06/23 11:55****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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          |                |              | 68925        | 12/11/23 17:43       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 17:43       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 68918        | 12/12/23 21:03       | CH      | EET MID |

**Client Sample ID: PH05****Lab Sample ID: 890-5757-5****Date Collected: 12/06/23 10:30****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/13/23 23:41       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/13/23 23:41       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 18:05       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.90 g         | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 18:05       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 21:10       | CH      | EET MID |

**Client Sample ID: PH06****Lab Sample ID: 890-5757-6****Date Collected: 12/06/23 12:40****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/14/23 00:07       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/14/23 00:07       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 18:27       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 18:27       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 21:16       | CH      | EET MID |

**Client Sample ID: PH07****Lab Sample ID: 890-5757-7****Date Collected: 12/06/23 13:40****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/14/23 00:32       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/14/23 00:32       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 18:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 18:48       | SM      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

**Client Sample ID: PH07****Lab Sample ID: 890-5757-7****Date Collected: 12/06/23 13:40****Matrix: Solid****Date Received: 12/08/23 08:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 21:22       | CH      | EET MID |

**Client Sample ID: PH09****Lab Sample ID: 890-5757-8****Date Collected: 12/07/23 09:15****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/14/23 00:58       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/14/23 00:58       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 19:10       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 19:10       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 68803        | 12/11/23 11:16       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 68918        | 12/12/23 21:28       | CH      | EET MID |

**Client Sample ID: PH13****Lab Sample ID: 890-5757-9****Date Collected: 12/07/23 12:10****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/14/23 01:24       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/14/23 01:24       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 19:32       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 19:32       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 68838        | 12/11/23 13:30       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 68919        | 12/12/23 14:54       | CH      | EET MID |

**Client Sample ID: PH16****Lab Sample ID: 890-5757-10****Date Collected: 12/07/23 09:40****Matrix: Solid****Date Received: 12/08/23 08:10**

| 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         | 69034        | 12/13/23 15:17       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 68890        | 12/14/23 01:50       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 69117        | 12/14/23 01:50       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 68925        | 12/11/23 19:54       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 68762        | 12/11/23 09:44       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 68747        | 12/11/23 19:54       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 68838        | 12/11/23 13:30       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 68919        | 12/12/23 15:18       | CH      | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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

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Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

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 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

| 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 16 TWR 102H

Job ID: 890-5757-1  
SDG: 03C15582292

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5757-1    | PH01             | Solid  | 12/06/23 10:55 | 12/08/23 08:10 | 0.5'  |
| 890-5757-2    | PH02             | Solid  | 12/06/23 11:25 | 12/08/23 08:10 | 0.5'  |
| 890-5757-3    | PH03             | Solid  | 12/06/23 13:05 | 12/08/23 08:10 | 0.5'  |
| 890-5757-4    | PH04             | Solid  | 12/06/23 11:55 | 12/08/23 08:10 | 0.5'  |
| 890-5757-5    | PH05             | Solid  | 12/06/23 10:30 | 12/08/23 08:10 | 0.5'  |
| 890-5757-6    | PH06             | Solid  | 12/06/23 12:40 | 12/08/23 08:10 | 0.5'  |
| 890-5757-7    | PH07             | Solid  | 12/06/23 13:40 | 12/08/23 08:10 | 0.5'  |
| 890-5757-8    | PH09             | Solid  | 12/07/23 09:15 | 12/08/23 08:10 | 0.5'  |
| 890-5757-9    | PH13             | Solid  | 12/07/23 12:10 | 12/08/23 08:10 | 0.5'  |
| 890-5757-10   | PH16             | Solid  | 12/07/23 09:40 | 12/08/23 08:10 | 0.5'  |





## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (505) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing  
Xenco

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

|                  |                      |                         |                    |
|------------------|----------------------|-------------------------|--------------------|
| Project Manager: | Ben Belli            | Bill to: (if different) | Garrett Green      |
| Company Name:    | Ensolum, LLC         | Company Name:           | Ensolum, LLC       |
| Address:         | 3122 Nat'l Parks Hwy | Address:                | 3104 E Greene St   |
| City, State ZIP: | Carlsbad, NM 88300   | City, State ZIP:        | Carlsbad, NM 88320 |
| Phone:           | 989-854-0852         | Email:                  | bbelli@ensolum.com |

|                   |                        |                                                               |                                                                           |            |  |
|-------------------|------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|------------|--|
| Project Name:     | PLU 16 TWR 103H        | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  |
| Project Number:   | 0361538292             | Due Date:                                                     | 10/3/2023                                                                 |            |  |
| Project Location: | 32.20755° - 103.78839° | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |            |  |
| Sampler's Name:   | Meredith Robert        |                                                               |                                                                           |            |  |
| PO #:             |                        |                                                               |                                                                           |            |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Analysis Request | Preservative Codes                                                |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------------|-------------------------------------------------------------------|
| SS01 PH01             | S      | 12/6/23      | 1055         | 0.5'  | G         | 1         | BTX        |                  | None: NO<br>DI Water: H <sub>2</sub> O                            |
| SS02 PH02             |        |              | 1125         |       |           |           | Chlorides  |                  | Cool: Cool<br>MeOH: Me                                            |
| SS03 PH03             |        |              | 1305         |       |           |           |            |                  | HCL: HC<br>HNO <sub>3</sub> : HN                                  |
| SS04 PH04             |        |              | 1155         |       |           |           |            |                  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub><br>NaOH: Na       |
| SS05 PH05             |        |              | 1030         |       |           |           |            |                  | H <sub>3</sub> PO <sub>4</sub> : HP<br>NaHSO <sub>4</sub> : NABIS |
| SS06 PH06             |        |              | 1240         |       |           |           |            |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> |
| SS07 PH07             |        | 12/16/23     | 1340         |       |           |           |            |                  | Zn Acetate+NaOH: Zn                                               |
| SS09 PH09             |        | 12/7/23      | 0915         |       |           |           |            |                  | NaOH+Ascorbic Acid: SAPC                                          |
| SS13 PH13             |        |              | 1210         |       |           |           |            |                  |                                                                   |
| SS16 PH16             |        |              | 0940         |       |           |           |            |                  |                                                                   |

Total 2007.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> 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 \$5.00 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 |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Meredith Robert              | ensolum                  | 8:10 12/9 |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |

Revised Date: 08/25/2020 Rev. 2020.2

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5757-1

SDG Number: 03C15582292

Login Number: 5757

List Number: 1

Creator: Lopez, Abraham

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: 890-5757-1

SDG Number: 03C15582292

Login Number: 5757

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/11/23 08:54 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    |         |



## APPENDIX E

### NMOCD Notifications

---

## Collins, Melanie

---

**From:** Collins, Melanie  
**Sent:** Monday, November 27, 2023 8:59 AM  
**To:** ocd.enviro (ocd.enviro@emnrd.nm.gov)  
**Cc:** Lambert, Tommee L; Green, Garrett J; Stephens, Louis; Ruth, Amy; DelawareSpills /SM  
**Subject:** 24-Hour Notification XTO Energy PLU 16 Twin Wells Ranch 102H

All,

This is notification of a release greater than 25 barrels that occurred yesterday, 11/26/23, at the PLU 16 Twin Wells Ranch 102H well pad. Coordinates are provided below. Details will be provided with a Form C-141. Please reach out with questions or concerns.

GPS 32.20755, -103.78839

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Green, Garrett J](#); [Hamlet, Robert, EMNRD](#); [Maxwell, Ashley, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Cc:** [Ben Belill](#); [Tacoma Morrissey](#)  
**Subject:** RE: [EXTERNAL] XTO - Sampling Notification (Week of 12/4/23 - 12/8/23)  
**Date:** Thursday, November 30, 2023 4:19:09 PM

Some people who received this message don't often get email from [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov). [Learn why this is important](#)

[ \*\*EXTERNAL EMAIL\*\* ]

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Scott Rodgers** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



**From:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>  
**Sent:** Thursday, November 30, 2023 10:55 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Ben Belill <[bbelill@ensolum.com](mailto:bbelill@ensolum.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Sampling Notification (Week of 12/4/23 - 12/8/23)

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 December 4, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | PLU 16 Twin Wells Ranch 102H  |
| Location                           | D-21-24S-31E; Eddy County, NM |
| Incident ID                        | Not Yet Determined            |
| Source & Description of Activities | Soil Sampling                 |

|                                  |                          |
|----------------------------------|--------------------------|
| Expected Duration for Activities | 2 Days (12.6.23-12.7.23) |
| Env Consultant                   | Ensolum                  |
| Contractor                       | Tex Mex                  |
| Sampling Notification Required   | Yes                      |
| Surface Owner                    | BLM                      |

|                                    |                                |
|------------------------------------|--------------------------------|
| Site Name                          | Stan 32 State 71H              |
| Location                           | L1-32-26S-30E; Eddy County, NM |
| Incident ID                        | NRM2004938133                  |
| Source & Description of Activities | Groundwater Sampling           |
| Expected Duration for Activities   | 3 Days (12.4.23-12.6.23)       |
| Env Consultant                     | Ensolum                        |
| Contractor                         | NA                             |
| Sampling Notification Required     | Yes                            |
| Surface Owner                      | SLO                            |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Nash Unit #046H               |
| Location                           | C-18-23S-30E; Eddy County, NM |
| Incident ID                        | NAB1821139914                 |
| Source & Description of Activities | Soil Sampling                 |
| Expected Duration for Activities   | 2 Days (12.7.23-12.8.23)      |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Remuda Basin 1                |
| Location                           | J-24-23S-29E; Eddy County, NM |
| Incident ID                        | NAB1836137253                 |
| Source & Description of Activities | Soil Sampling                 |
| Expected Duration for Activities   | 5 Days (12.4.23-12.8.23)      |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |



**Garrett Green**

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

[Garrett.Green@ExxonMobil.com](mailto:Garrett.Green@ExxonMobil.com)

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS  
  
Action 346946

QUESTIONS

|                                                                             |                |
|-----------------------------------------------------------------------------|----------------|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         |
|                                                                             | 5380           |
|                                                                             | Action Number: |
|                                                                             | 346946         |
| Action Type:                                                                |                |
| [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)                    |                |

QUESTIONS

|                  |                                                 |
|------------------|-------------------------------------------------|
| Prerequisites    |                                                 |
| Incident ID (n#) | nAPP2334249809                                  |
| Incident Name    | NAPP2334249809 PLU 16 TWIN WELLS RANCH 102H @ 0 |
| Incident Type    | Produced Water Release                          |
| Incident Status  | Remediation Plan Received                       |

Location of Release Source

Please answer all the questions in this group.

|                         |                              |
|-------------------------|------------------------------|
| Site Name               | PLU 16 Twin Wells Ranch 102H |
| Date Release Discovered | 11/26/2023                   |
| Surface Owner           | Federal                      |

Incident Details

Please answer all the questions in this group.

|                                                                                                      |                        |
|------------------------------------------------------------------------------------------------------|------------------------|
| Incident Type                                                                                        | Produced Water 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                                                                                                                    | Not answered.                                                                                                    |
| Produced Water Released (bbls) Details                                                                                                               | Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 1,610 BBL   Recovered: 1,300 BBL   Lost: 310 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                  | Yes                                                                                                              |
| 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) | Not answered.                                                                                                    |

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 346946

**QUESTIONS (continued)**

|                                                                             |                |                                                          |
|-----------------------------------------------------------------------------|----------------|----------------------------------------------------------|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         | 5380                                                     |
|                                                                             | Action Number: | 346946                                                   |
|                                                                             | Action Type:   | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
|                                                                             |                |                                                          |

**QUESTIONS**

|                                                                                                                                                         |                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nature and Volume of Release (continued)</b>                                                                                                         |                                                                                                                                        |
| 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:<br>(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: Melanie Collins<br>Title: Regulatory Analyst<br>Email: Melanie.Collins@exxonmobil.com<br>Date: 12/08/2023 |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 346946

**QUESTIONS (continued)**

|                                                                             |                |                                                          |
|-----------------------------------------------------------------------------|----------------|----------------------------------------------------------|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         | 5380                                                     |
|                                                                             | Action Number: | 346946                                                   |
|                                                                             | Action Type:   | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
|                                                                             |                |                                                          |

**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 100 and 500 (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                         |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                            |
| A continuously flowing watercourse or any other significant watercourse                                                    | Between 1 and 5 (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                               | No                         |

**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)         | 7950 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0    |
| GRO+DRO (EPA SW-846 Method 8015M)           | 0    |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0    |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0    |

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                        | 08/22/2024 |
| On what date will (or did) the final sampling or liner inspection occur     | 09/22/2024 |
| On what date will (or was) the remediation complete(d)                      | 09/22/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 81544      |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 12000      |
| What is the estimated surface area (in square feet) that will be remediated | 81544      |
| What is the estimated volume (in cubic yards) that will be remediated       | 12000      |

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.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 346946

**QUESTIONS (continued)**

|                                                                             |                |                                                          |
|-----------------------------------------------------------------------------|----------------|----------------------------------------------------------|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         | 5380                                                     |
|                                                                             | Action Number: | 346946                                                   |
|                                                                             | Action Type:   | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
|                                                                             |                |                                                          |

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes                               |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | OWL LANDFILL JAL [fJEG1635837366] |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                     |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                     |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                     |
| (Ex Situ) Excavation and <b>on-site</b> 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: Alan Romero<br>Title: Regulatory Analyst<br>Email: alan.romero1@exxonmobil.com<br>Date: 05/22/2024 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|

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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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 5  
  
Action 346946

QUESTIONS (continued)

|                                                                                 |                                                                              |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                                           |
|                                                                                 | Action Number:<br><br>346946                                                 |
|                                                                                 | Action Type:<br><br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

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                                                                                                 | No |

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

QUESTIONS, Page 6  
  
Action 346946

QUESTIONS (continued)

|                                                                                 |                                                                              |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                                           |
|                                                                                 | Action Number:<br><br>346946                                                 |
|                                                                                 | Action Type:<br><br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

|                                              |                |
|----------------------------------------------|----------------|
| Sampling Event Information                   |                |
| Last sampling notification (C-141N) recorded | {Unavailable.} |

|                                                                                                                                            |    |
|--------------------------------------------------------------------------------------------------------------------------------------------|----|
| 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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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 346946

CONDITIONS

|                                                                                 |                                                                              |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                                           |
|                                                                                 | Action Number:<br><br>346946                                                 |
|                                                                                 | Action Type:<br><br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

CONDITIONS

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| scwells    | Remediation plan approved with conditions. Variance request to collect samples every 500 square feet is denied. Samples may be collected representing no more than every 400 square feet. Variance request to test soil samples for chlorides only is denied. TPH was detected in PH04 therefore all samples should still be tested for all Table I constituents. Submit remediation closure report to the OCD by 8/27/2024. | 5/29/2024      |