

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2211151438 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 09/21/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 09/22/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 12/13/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |                |
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## Release Notification

### Responsible Party

|                                                                            |                                |
|----------------------------------------------------------------------------|--------------------------------|
| Responsible Party XTO Energy                                               | OGRID 5380                     |
| Contact Name Adrian Baker                                                  | Contact Telephone 432-236-3808 |
| Contact email adrian.baker@exxonmobil.com                                  | Incident # (assigned by OCD)   |
| Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707 |                                |

### Location of Release Source

Latitude 32.10946 Longitude -103.88915  
(NAD 83 in decimal degrees to 5 decimal places)

|                                    |                           |
|------------------------------------|---------------------------|
| Site Name PLU 21 Brushy Draw 124H  | Site Type Production Well |
| Date Release Discovered 04/08/2022 | API# (if applicable)      |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| N           | 21      | 25S      | 30E   | Eddy   |

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

### Nature and Volume of Release

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

|                                                                                |                                                                                          |                                                          |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                                             | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Produced Water                                        | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
|                                                                                | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                                            | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas                                           | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                   |
| <input checked="" type="checkbox"/> Other (describe)<br>Produced Water with FR | Volume/Weight Released (provide units)<br>15.00 BBLS                                     | Volume/Weight Recovered (provide units)<br>12.00 BBLS    |

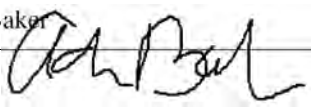
Cause of Release During fracing operations, the blender failed, causing fluids to release both to containment and pad. All free fluids were recovered with a vacuum truck. A third-party contractor has been retained for remediation purposes.

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|                                                                                                                                       |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release?<br>N/A |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>N/A                   |                                                                                             |

### Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                                |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                |
| Printed Name: <u>Adrian Baker</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Title: <u>SSHE Coordinator</u> |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: <u>4/21/22</u>           |
| email: <u>adrian.baker@exxonmobil.com</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Telephone: <u>432-236-3808</u> |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| Received by: <u>Jocelyn Harimon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date: <u>04/21/2022</u>        |

|                                          |                                |         |
|------------------------------------------|--------------------------------|---------|
| <b>Location:</b>                         | <b>PLU 21 Brushy Draw 124H</b> |         |
| <b>Spill Date:</b>                       | <b>4/8/2022</b>                |         |
| <b>Area 1</b>                            |                                |         |
| Approximate Area =                       | 56.15                          | cu.ft.  |
| VOLUME OF LEAK                           |                                |         |
| Total Crude Oil =                        | 0.00                           | bbls    |
| Total Produced Water =                   | 10.00                          | bbls    |
| <b>Area 2</b>                            |                                |         |
| Approximate Area =                       | 4485.00                        | sq. ft. |
| Average Saturation (or depth) of spill = | 1.50                           | inches  |
| Average Porosity Factor =                |                                |         |
| 0.03                                     |                                |         |
| VOLUME OF LEAK                           |                                |         |
| Total Crude Oil =                        | 0.00                           | bbls    |
| Total Produced Water =                   | 5.00                           | bbls    |
| <b>TOTAL VOLUME OF LEAK</b>              |                                |         |
| Total Crude Oil =                        | 0.00                           | bbls    |
| Total Produced Water =                   | 15.00                          | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                                |         |
| Total Crude Oil =                        | 0.00                           | bbls    |
| Total Produced Water =                   | 12.00                          | bbls    |



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

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

CONDITIONS  
  
Action 100664

CONDITIONS

|                                                                                 |                                                               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                            |
|                                                                                 | Action Number:<br><br>100664                                  |
|                                                                                 | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon   | None      | 4/21/2022      |

|                |                |
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## Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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Printed Name: \_Garrett Green\_\_\_\_\_ Title: \_Environmental Coordinator\_\_\_\_\_

Signature:  Date: \_\_\_09/21/2022\_\_\_\_\_

email: \_garrett.green@exxonmobil.com\_\_\_\_\_ Telephone: \_\_\_575-200-0729\_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon Date: 09/22/2022

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## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 09/21/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 09/22/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



September 21, 2022

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

**Re: Closure Request  
PLU 21 Brushy Draw 104H, 123H, and 124H  
Incident Numbers NAPP2209736479, NAPP2211151438, and NAPP2211651017  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities at the PLU 21 Brushy Draw 104H, 123H, and 124H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from three separate releases of produced water with friction reducer onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for the following Incident Numbers NAPP2209736479, NAPP2211151438, and NAPP2211651017.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10934° N, 103.88918° W) and is associated with oil and gas exploration and production operations on Private Land.

##### **Incident Number NAPP2209736479**

On March 25, 2022, during hydraulic fracturing operations, the packing on two pumps and a hose failed resulting in the release of approximately 45.0 barrels (bbls) of produced water, treated with friction reducer, into a temporary containment and onto the Site pad. Approximately 40.0 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 25, 2022 and submitted a Release Notification Form C-141 (Form C-141) on April 7, 2022. The release was assigned Incident Number NAPP2209736479.

##### **Incident Number NAPP2211151438**

On April 8, 2022, during hydraulic fracturing operations, a blender failed resulting in the release of approximately 15.0 bbls of produced water, treated with friction reducer, into a temporary containment and onto the Site pad. Approximately 12.0 bbls of released fluids were recovered. XTO reported the

release to the NMOCD on a Form C-141 on April 21, 2022. The release was assigned Incident Number NAPP2211151438.

#### **Incident Number NAPP2211651017**

On April 15, 2022, during hydraulic fracturing operations, communication loss with a blender resulted in the release of approximately 10.0 bbls of produced water, treated with friction reducer, into a temporary containment and onto the Site pad. Approximately 2.0 bbls of released fluids were recovered. XTO reported the release to the NMOCD on a Form C-141 on April 26, 2022. The release was assigned Incident Number NAPP2211651017.

Produced water is recycled through filtering and separation, then mixed in a blender with friction reducer and used as hydraulic fracturing fluid during the well completion process. The three release areas overlapped and were addressed concurrently. The temporary liners were removed prior to beginning Site assessment activities. As such, liner inspections could not be completed. The release extent (combined) was identified based on information provided on the Form C-141 and visual observations.

#### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is 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 United States Geological Survey (USGS) well 320628103533001, located approximately 0.18 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 264 feet bgs and a total depth of 288 feet bgs. Ground surface elevation at the groundwater well location is 3,207 feet above mean sea level (amsl), which is approximately 28 feet lower in elevation than the Site. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 186 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not 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 proximity of the nearby intermittent dry wash and water well, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES

On June 17, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141s and visual observations. Four preliminary soil samples (SS01 through SS04) were collected within and around (SS04) the release extent at a depth of approximately 0.5 feet bgs to assess surficial soil within the release extent. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated TPH and chloride concentrations exceeded the Closure Criteria. Based on visible staining within the release extent, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities appeared warranted.

## DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between August 31, 2022 and September 2, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities. Delineation samples from potholes PH01 through PH04 were advanced via trackhoe in the vicinity of the four preliminary soil sample locations, respectively, that were collected within the release extent to assess the vertical extent of the release; depths ranged from 1-foot to 2 feet bgs. Soil from the delineation samples was only field screened for volatile aromatic hydrocarbons and chloride; soil samples for laboratory analysis were not collected or submitted since excavation activities were to proceed delineation activities. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The potholes and delineation soil sample locations are depicted on Figure 2.

Impacted soil was excavated from the release extent as indicated by visible staining, field screening activities for potholes PH01 through PH04, and laboratory analytical results of preliminary soil samples SS01 through SS04. Excavation activities were performed using a trackhoe, backhoe and transport vehicles. To direct excavation activities, Ensolum personnel screened soil for volatile aromatic hydrocarbons and chloride. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS28 were collected from the floor of the excavation at depths ranging from 2 feet to 3 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewall of the excavation at depths ranging from ground surface to 3 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 5,600 square feet. A total of approximately 440 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was



transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the excavation floor soil samples FS01 through FS28 and sidewall soil samples SW01 through SW04 indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation floor soil sample FS18 at 2 feet bgs initially indicated minimal concentrations of TPH exceeded the Site Closure Criteria. On September 15, 2022, Ensolum personnel returned to the Site to re-collect composite soil sample FS18, in which the subsequent laboratory analytical results were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 25, 2022, April 8, 2022, and April 15, 2022, releases of produced water treated with friction reducer. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation appears required at this time. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Notifications to NMOCD regarding sampling events are included in Appendix E. The Safety Data Sheet (SDS) for friction reducer is provided in Appendix F.

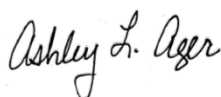
Excavation of impacted soil has mitigated impacts at this Site and depth to groundwater has been estimated to be greater than 100 feet bgs. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers NAPP2209736479, NAPP2211151438 and NAPP2211651017.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or [aager@ensolum.com](mailto:aager@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Benjamin J. Belill  
Project Geologist



Ashley L. Ager, M.S., PG  
Program Director

cc: Garrett Green, XTO  
Shelby Pennington, XTO

### Appendices:

Figure 1 Site Receptor Map  
Figure 2 Delineation Soil Sample Locations

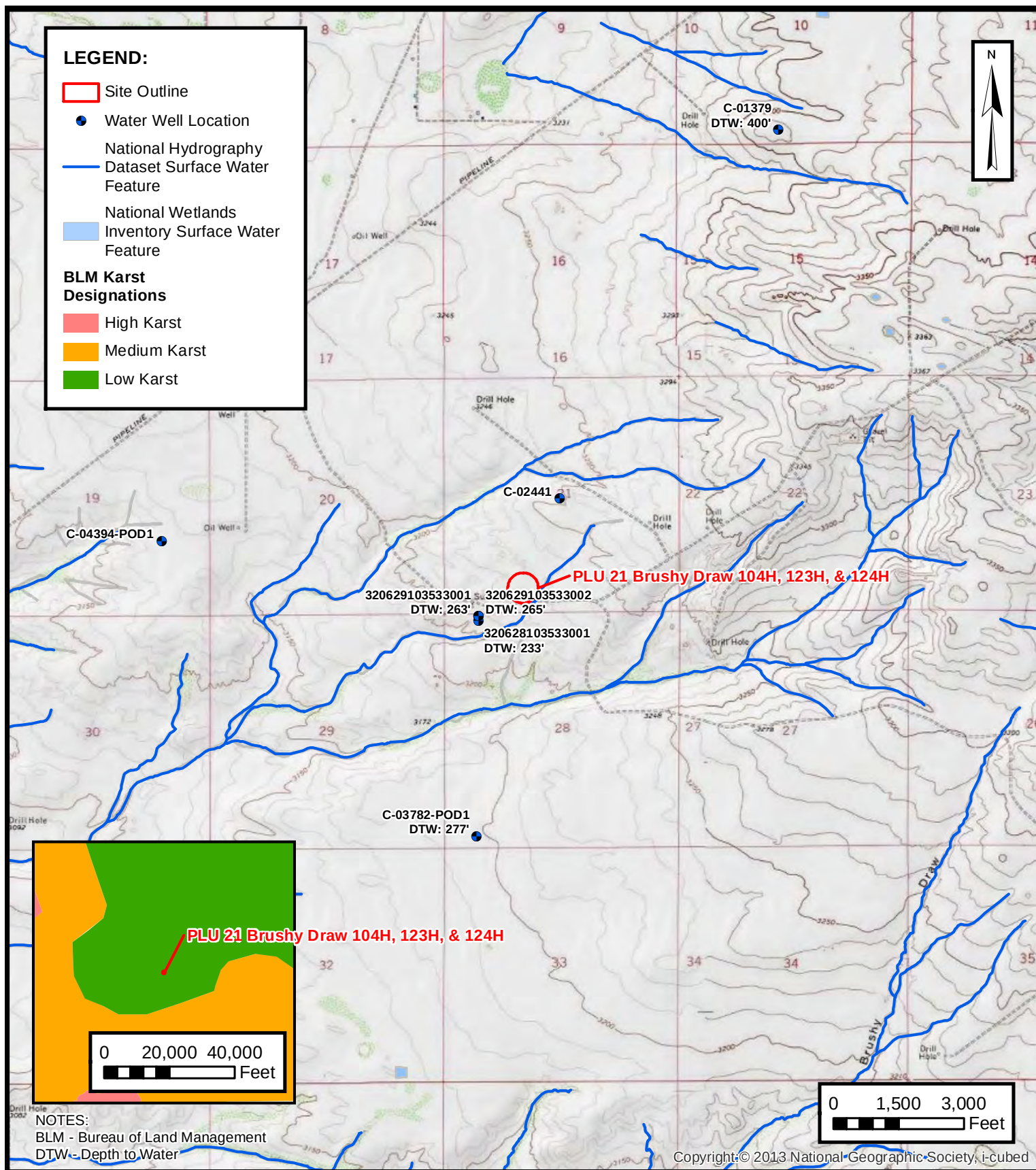


---

|            |                                                                |
|------------|----------------------------------------------------------------|
| Figure 3   | Excavation Soil Sample Locations                               |
| Table 1    | Soil Sample Analytical Results                                 |
| Appendix A | Referenced Well Records                                        |
| Appendix B | Photographic Log                                               |
| Appendix C | Lithologic / Soil Sampling Logs                                |
| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix E | NMOCD Notifications                                            |
| Appendix F | Friction Reducer SDS                                           |



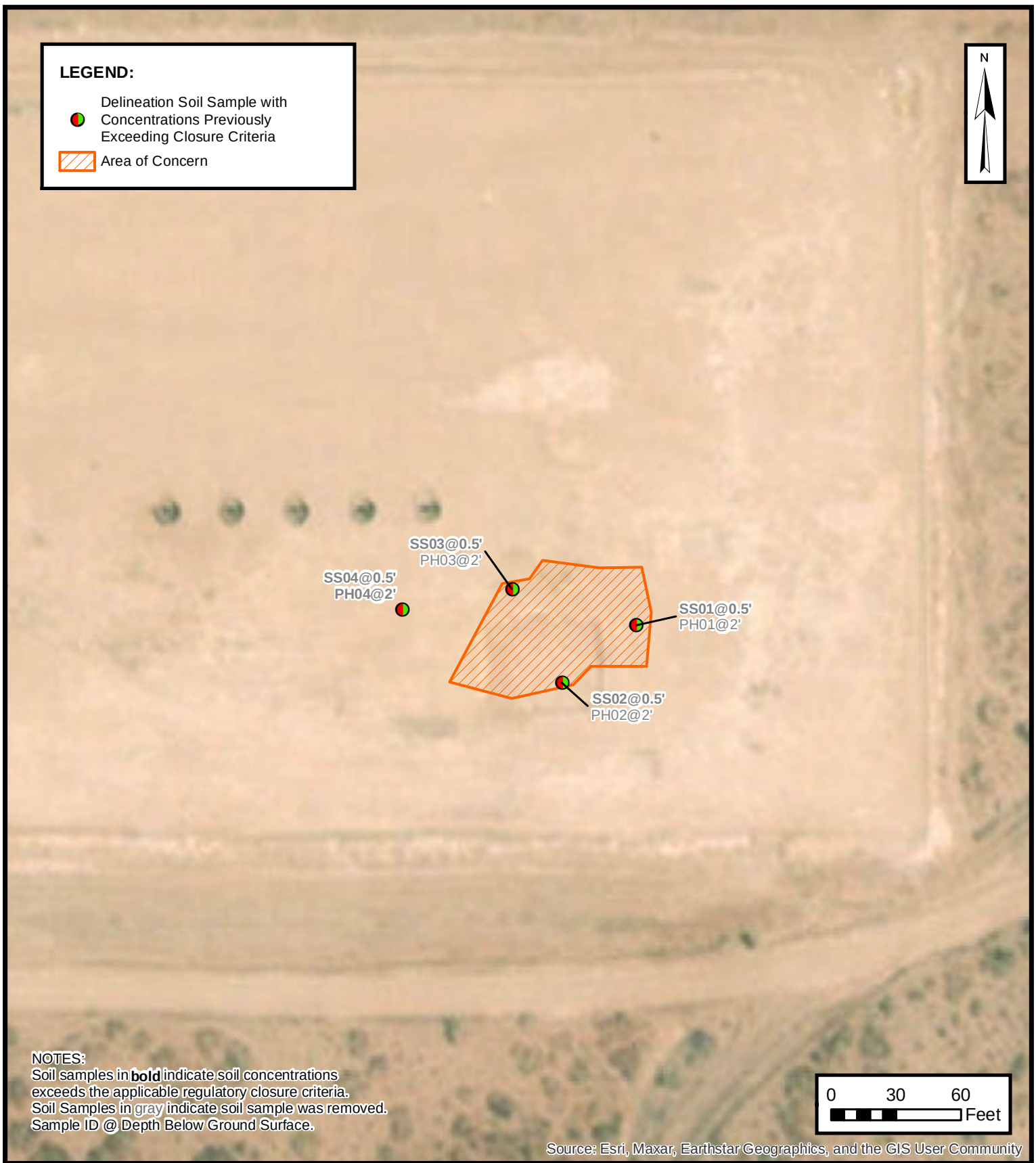
FIGURES

**SITE RECEPTOR MAP**

XTO ENERGY, INC  
 PLU 21 BRUSHY DRAW 104H, 123H & 124H  
 nAPP2209736479, nAPP2211651017, nAPP2211151438  
 Unit N, Sec 21, T25S, R30E  
 Eddy County, New Mexico

**FIGURE****1**





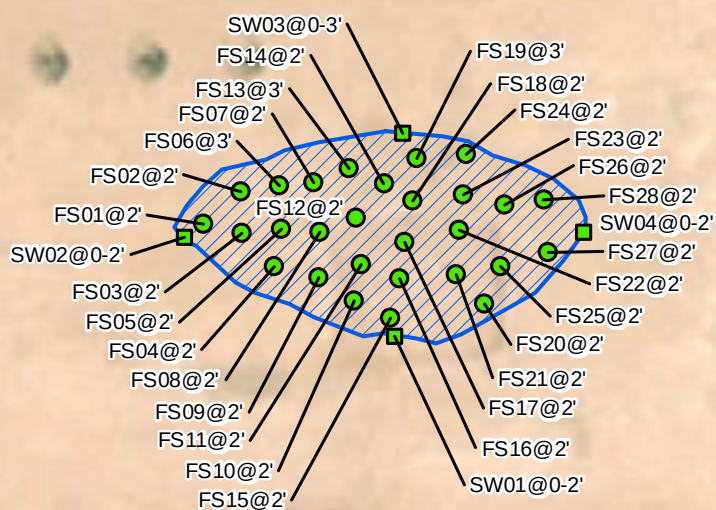
### DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC  
 PLU 21 BRUSHY DRAW 104H, 123H, & 124H  
 nAPP2209736479, nAPP2211651017, nAPP2211151438  
 Unit N, Sec 21, T25S, R30E  
 Eddy County, New Mexico

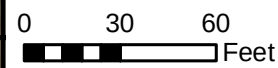
**FIGURE**  
**2**

**LEGEND:**

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Extent



NOTES:  
Sample ID @ Depth Below Ground Surface.



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

**EXCAVATION SOIL SAMPLE LOCATIONS**

XTO ENERGY, INC  
PLU 21 BRUSHY DRAW 104H, 123H & 124H  
nAPP2209736479, nAPP2211651017, nAPP2211151438  
Unit N, Sec 21, T25S, R30E  
Eddy County, New Mexico

**FIGURE****3**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU 21 Brushy Draw 104H, 123H, & 124H**  
**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 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | NE              | 100               | 600              |
| Delineation Soil Samples                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01                                           | 06/17/2022  | 0.5                     | <0.00199        | <0.00398           | 125             | 7,380           | <49.9           | 7,505           | 7,510             | 41,500           |
| PH01                                           | 08/31/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 259              |
| SS02                                           | 06/17/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | 3,910           | 1,160           | 3,910           | 5,070             | 16,900           |
| PH02                                           | 08/31/2022  | 2                       | <0.00198        | <0.00396           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 51.7             |
| SS03                                           | 06/17/2022  | 0.5                     | <0.00200        | <0.00399           | 279             | 7,120           | 4,390           | 7,399           | 11,800            | 31,300           |
| PH03                                           | 08/31/2022  | 2                       | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 541              |
| SS04                                           | 06/17/2022  | 0.5                     | <0.00199        | <0.00398           | <50.0           | 115             | 177             | 115             | 292               | 12,600           |
| PH04                                           | 08/31/2022  | 2                       | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 644              |
| Confirmation Soil Samples                      |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01                                           | 09/01/2022  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 219              |
| FS02                                           | 09/01/2022  | 2                       | <0.00198        | <0.00397           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 328              |
| FS03                                           | 09/01/2022  | 2                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 103              |
| FS04                                           | 09/01/2022  | 2                       | <0.00202        | <0.00403           | 55.9            | <49.8           | <49.8           | 55.9            | 55.9              | 333              |
| FS05                                           | 09/01/2022  | 2                       | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 329              |
| FS06                                           | 09/02/2022  | 3                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 430              |
| FS07                                           | 09/02/2022  | 3                       | <0.00201        | <0.00402           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 369              |
| FS08                                           | 09/01/2022  | 2                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 354              |
| FS09                                           | 09/01/2022  | 2                       | <0.00200        | <0.00400           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 56.7             |
| FS10                                           | 09/01/2022  | 2                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 92.3             |
| FS11                                           | 09/01/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 181              |
| FS12                                           | 09/01/2022  | 2                       | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 238              |
| FS13                                           | 09/02/2022  | 3                       | <0.00200        | <0.00401           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 392              |
| FS14                                           | 09/02/2022  | 3                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 369              |
| FS15                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 249              |
| FS16                                           | 09/02/2022  | 2                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 283              |
| FS17                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 119              |
| FS18                                           | 09/02/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | 175             | <50.0           | 175             | 175               | 167              |
| FS18                                           | 09/15/2022  | 2                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 237              |
| FS19                                           | 09/02/2022  | 3                       | <0.00198        | <0.00397           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 99.9             |
| FS20                                           | 09/02/2022  | 2                       | 0.00336         | 0.00812            | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 52.5             |
| FS21                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 178              |
| FS22                                           | 09/02/2022  | 2                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 46.4             |





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU 21 Brushy Draw 104H, 123H, & 124H**  
**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 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | NE              | 100               | 600              |
| FS23                                           | 09/02/2022  | 2                       | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 35.2             |
| FS24                                           | 09/02/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 24.7             |
| FS25                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 40.9             |
| FS26                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 399              |
| FS27                                           | 09/02/2022  | 2                       | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 528              |
| FS28                                           | 09/02/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 497              |
| SW01                                           | 09/02/2022  | 0-2                     | <0.00198        | <0.00397           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 390              |
| SW02                                           | 09/02/2022  | 0-2                     | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 533              |
| SW03                                           | 09/02/2022  | 0-3                     | <0.00202        | <0.00403           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 210              |
| SW04                                           | 09/02/2022  | 0-2                     | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 119              |

## 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 1 Closure Criteria or reclamation standard where applicable.

Grey text indicate soil sample removed during excavation activities or re-sampled

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon





## APPENDIX A

### Referenced Well Records

---



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## National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

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- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
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Groundwater levels for the Nation

**I** Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list = 

- 320628103533001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 320628103533001 25S.30E.21.333424

Eddy County, New Mexico

Latitude 32°06'28", Longitude 103°53'30" NAD27

Land-surface elevation 3,207 feet above NAVD88

The depth of the well is 288 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source<br>measu |
|------------|------|-------------------------------------------|------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-------------|-------------------------------|--------------------------|----------------------|
|            |      |                                           |                        |                                                     |                                                                   |                                 |             |                               |                          |                      |
| 1958-08-21 |      |                                           | D                      | 62610                                               | 2972.36                                                           | NGVD29                          | 1           |                               | Z                        |                      |
| 1958-08-21 |      |                                           | D                      | 62611                                               | 2974.00                                                           | NAVD88                          | 1           |                               | Z                        |                      |
| 1958-08-21 |      |                                           | D                      | 72019                                               | 233.00                                                            |                                 | 1           |                               | Z                        |                      |
| 1959-02-05 |      |                                           | D                      | 62610                                               | 2939.26                                                           | NGVD29                          | P           |                               | Z                        |                      |
| 1959-02-05 |      |                                           | D                      | 62611                                               | 2940.90                                                           | NAVD88                          | P           |                               | Z                        |                      |
| 1959-02-05 |      |                                           | D                      | 72019                                               | 266.10                                                            |                                 | P           |                               | Z                        |                      |
| 1983-02-01 |      |                                           | D                      | 62610                                               | 2945.48                                                           | NGVD29                          | 1           |                               | Z                        |                      |
| 1983-02-01 |      |                                           | D                      | 62611                                               | 2947.12                                                           | NAVD88                          | 1           |                               | Z                        |                      |
| 1983-02-01 |      |                                           | D                      | 72019                                               | 259.88                                                            |                                 | 1           |                               | Z                        |                      |
| 1998-01-28 |      |                                           | D                      | 62610                                               | 2940.76                                                           | NGVD29                          | 1           |                               | S                        |                      |
| 1998-01-28 |      |                                           | D                      | 62611                                               | 2942.40                                                           | NAVD88                          | 1           |                               | S                        |                      |
| 1998-01-28 |      |                                           | D                      | 72019                                               | 264.60                                                            |                                 | 1           |                               | S                        |                      |

Explanation

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

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**Title: Groundwater for USA: Water Levels**

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-08-29 12:27:10 EDT

0.29 0.25 nadww01





## APPENDIX B

### Photographic Log

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## Photographic Log

XTO Energy, Inc.

PLU 21 Brushy Draw 104H, 123H, & 124H

Incident Numbers: NAPP2209736479,  
NAPP2211651017, NAPP2211151438



Photograph 1 Date: June 17, 2022  
Description: Site Assessment Activities



Photograph 2 Date: August 31, 2022  
Description: Delineation Activities



Photograph 3 Date: September 2, 2022  
Description: Excavation Activities



Photograph 4 Date: September 2, 2022  
Description: Excavation Activities



## APPENDIX C

### Lithologic Soil Sampling Logs

---



|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: PH01                     |          | Date: 8/31/2022    |                       |                |                  |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|----------|--------------------|-----------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                               |                | Site Name: PLU 21 BD 104H, 123H, 124H |          |                    |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                | Incident Number: Multiple             |          |                    |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                | Job Number: 03E1558048                |          |                    |                       |                |                  |                                                                                                           |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                         |                |                                       |          |                    |                       |                |                  |                                                                                                           |
| Coordinates: 32.109326, -103.88892                                                                                                                                                            |                |                                       |          | Hole Diameter: N/A |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                |                                       |          | Method: Trackhoe   |                       |                |                  |                                                                                                           |
| 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. |                |                                       |          |                    |                       |                |                  |                                                                                                           |
| Moisture Content                                                                                                                                                                              | Chloride (ppm) | Vapor (ppm)                           | Staining | Sample ID          | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                   |
|                                                                                                                                                                                               |                |                                       |          |                    |                       | 0              | CCHE (fill)      | 0-0.5', CALICHE w/ fine sand, moist, tan, some small sub-round gravel, brown stain, light H/C odor, fill. |
| M                                                                                                                                                                                             | 2,552          | 1.0                                   | Y        | SS01               | 0.5                   |                | SP               | 0.5'-2', SAND, moist, brown, poorly graded, fine grain, trace silt, no stain, no odor.                    |
| M                                                                                                                                                                                             | 6,076          | 0.2                                   | N        |                    | 1                     | 1              |                  |                                                                                                           |
| M                                                                                                                                                                                             | 280            | 0.2                                   | N        | PH01               | 2                     | 2              | TD               | Total Depth at 2 feet bgs.                                                                                |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                   | Sample Name: PH02                     |          | Date: 8/31/2022    |                             |                   |                     |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|----------|--------------------|-----------------------------|-------------------|---------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                               |                   | Site Name: PLU 21 BD 104H, 123H, 124H |          |                    |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   | Incident Number: Multiple             |          |                    |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   | Job Number: 03E1558048                |          |                    |                             |                   |                     |                                                                                                           |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                         |                   |                                       |          |                    |                             |                   |                     |                                                                                                           |
| Coordinates: 32.109326, -103.88892                                                                                                                                                            |                   |                                       |          | Hole Diameter: N/A |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   |                                       |          | Method: Trackhoe   |                             |                   |                     |                                                                                                           |
| 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. |                   |                                       |          |                    |                             |                   |                     |                                                                                                           |
| Moisture<br>Content                                                                                                                                                                           | Chloride<br>(ppm) | Vapor<br>(ppm)                        | Staining | Sample ID          | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs) | USCS/Rock<br>Symbol | Lithologic Descriptions                                                                                   |
|                                                                                                                                                                                               |                   |                                       |          |                    |                             | 0                 | CCHE<br>(fill)      | 0-0.5', CALICHE w/ fine sand, moist, tan, some small sub-round gravel, brown stain, light H/C odor, fill. |
| M                                                                                                                                                                                             | 4,340             | 8.9                                   | Y        | SS02               | 0.5                         |                   | SP                  | 0.5'-2', SAND, moist, brown, poorly graded, fine grain, trace silt, no stain, no odor.                    |
| M                                                                                                                                                                                             | 3,516             | 0.2                                   | N        |                    | 1                           | 1                 |                     |                                                                                                           |
| M                                                                                                                                                                                             | <112              | 0.2                                   | N        | PH02               | 2                           | 2                 | TD                  | Total Depth at 2 feet bgs.                                                                                |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                   | Sample Name: PH03                     |          | Date: 8/31/2022    |                             |                   |                     |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|----------|--------------------|-----------------------------|-------------------|---------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                               |                   | Site Name: PLU 21 BD 104H, 123H, 124H |          |                    |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   | Incident Number: Multiple             |          |                    |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   | Job Number: 03E1558048                |          |                    |                             |                   |                     |                                                                                                           |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                         |                   |                                       |          |                    |                             |                   |                     |                                                                                                           |
| Coordinates: 32.109326, -103.88892                                                                                                                                                            |                   |                                       |          | Hole Diameter: N/A |                             |                   |                     |                                                                                                           |
|                                                                                                                                                                                               |                   |                                       |          | Method: Trackhoe   |                             |                   |                     |                                                                                                           |
| 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. |                   |                                       |          |                    |                             |                   |                     |                                                                                                           |
| Moisture<br>Content                                                                                                                                                                           | Chloride<br>(ppm) | Vapor<br>(ppm)                        | Staining | Sample ID          | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs) | USCS/Rock<br>Symbol | Lithologic Descriptions                                                                                   |
|                                                                                                                                                                                               |                   |                                       |          |                    |                             | 0                 | CCHE<br>(fill)      | 0-0.5', CALICHE w/ fine sand, moist, tan, some small sub-round gravel, brown stain, light H/C odor, fill. |
| M                                                                                                                                                                                             | 1,892             | 3.8                                   | Y        | SS03               | 0.5                         |                   | SP                  | 0.5'-2', SAND, moist, brown, poorly graded, fine grain, trace silt, no stain, no odor.                    |
| M                                                                                                                                                                                             | 4,429             | 0.2                                   | N        |                    | 1                           | 1                 |                     |                                                                                                           |
| M                                                                                                                                                                                             | 520               | 0.2                                   | N        | PH03               | 2                           | 2                 |                     |                                                                                                           |
|                                                                                                                                                                                               |                   |                                       |          |                    |                             |                   | TD                  | Total Depth at 2 feet bgs.                                                                                |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: PH04                     |          | Date: 8/31/2022    |                       |                |                  |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|----------|--------------------|-----------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                               |                | Site Name: PLU 21 BD 104H, 123H, 124H |          |                    |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                | Incident Number: Multiple             |          |                    |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                | Job Number: 03E1558048                |          |                    |                       |                |                  |                                                                                                           |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                         |                |                                       |          |                    |                       |                |                  |                                                                                                           |
| Coordinates: 32.109326, -103.88892                                                                                                                                                            |                |                                       |          | Hole Diameter: N/A |                       |                |                  |                                                                                                           |
|                                                                                                                                                                                               |                |                                       |          | Method: Trackhoe   |                       |                |                  |                                                                                                           |
| 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. |                |                                       |          |                    |                       |                |                  |                                                                                                           |
| Moisture Content                                                                                                                                                                              | Chloride (ppm) | Vapor (ppm)                           | Staining | Sample ID          | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                                                                   |
|                                                                                                                                                                                               |                |                                       |          |                    |                       | 0              | CCHE (fill)      | 0-0.5', CALICHE w/ fine sand, moist, tan, some small sub-round gravel, brown stain, light H/C odor, fill. |
| M                                                                                                                                                                                             | 3,712          | 3.5                                   | Y        | SS04               | 0.5                   |                | SP               | 0.5'-2', SAND, moist, brown, poorly graded, fine grain, trace silt, no stain, no odor.                    |
| M                                                                                                                                                                                             | 2,111          | 0.2                                   | N        |                    | 1                     | 1              |                  |                                                                                                           |
| M                                                                                                                                                                                             | 520            | 0.2                                   | N        | PH04               | 2                     | 2              | TD               | Total Depth at 2 feet bgs.                                                                                |



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2427-1

Laboratory Sample Delivery Group: 03E1558053  
Client Project/Site: PLU 21 BD 104H, 123H, 124H  
Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
9/13/2022 11:50:01 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Laboratory Job ID: 890-2427-1  
SDG: 03E1558053

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

**Job ID: 890-2427-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-2427-1

### REVISION

The report being provided is a revision of the original report sent on 6/24/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change.

Report revision history

### Receipt

The sample was received on 6/17/2022 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C

### GC VOA

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-28063 and analytical batch 880-28005 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-28063 and analytical batch 880-28005 was outside control limits. Sample matrix interference is suspected.

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

### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SS01 (890-2427-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

### HPLC/IC

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

Client Sample ID: SS01

Lab Sample ID: 890-2427-1

Date Collected: 06/17/22 12:35

Matrix: Solid

Date Received: 06/17/22 16:33

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| o-Xylene            | <0.00199 | U *       | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:51 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 06/22/22 12:17 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 7510   |           | 49.9 | mg/Kg |   |          | 06/22/22 11:20 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 125    |           | 49.9 | mg/Kg |   | 06/22/22 14:48 | 06/22/22 22:17 | 1       |
| Diesel Range Organics (Over C10-C28) | 7380   |           | 49.9 | mg/Kg |   | 06/22/22 14:48 | 06/22/22 22:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 06/22/22 14:48 | 06/22/22 22:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 132       | S1+       | 70 - 130 | 06/22/22 14:48 | 06/22/22 22:17 | 1       |
| o-Terphenyl    | 115       |           | 70 - 130 | 06/22/22 14:48 | 06/22/22 22:17 | 1       |

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

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 41500  |           | 250 | mg/Kg |   |          | 06/24/22 13:40 | 50      |

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# Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

## 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) |
| 890-2426-A-1-C MS                 | Matrix Spike           | 110                                            | 99                |
| 890-2426-A-1-D MSD                | Matrix Spike Duplicate | 91                                             | 93                |
| 890-2427-1                        | SS01                   | 117                                            | 105               |
| LCS 880-28063/1-A                 | Lab Control Sample     | 121                                            | 100               |
| LCSD 880-28063/2-A                | Lab Control Sample Dup | 110                                            | 104               |
| MB 880-27967/5-A                  | Method Blank           | 93                                             | 110               |
| MB 880-28063/5-A                  | Method Blank           | 95                                             | 107               |
| <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) |
| 890-2427-1              | SS01             | 132 S1+                                        | 115               |
| <b>Surrogate Legend</b> |                  |                                                |                   |
| 1CO = 1-Chlorooctane    |                  |                                                |                   |
| OTPH = o-Terphenyl      |                  |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-27967/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27967

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110          |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107          |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

Lab Sample ID: LCS 880-28063/1-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09845    |               | mg/Kg |   | 98   | 70 - 130    |
| Toluene             | 0.100       | 0.1157     |               | mg/Kg |   | 116  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1118     |               | mg/Kg |   | 112  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2330     |               | mg/Kg |   | 117  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1311     | *+            | mg/Kg |   | 131  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.1045      |                | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

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

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.1127      |                | mg/Kg |   | 113  | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1015      |                | mg/Kg |   | 102  | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2046      |                | mg/Kg |   | 102  | 70 - 130    | 13  | 35        |
| o-Xylene            | 0.100       | 0.1150      |                | mg/Kg |   | 115  | 70 - 130    | 13  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 110            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.07404   |              | mg/Kg |   | 74   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.07758   |              | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.06116   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.200       | 0.1209    | F1           | mg/Kg |   | 60   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.06788   | F1           | mg/Kg |   | 68   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 890-2426-A-1-D MSD

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.06494    | F1            | mg/Kg |   | 65   | 70 - 130    | 13  | 35        |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.06696    | F1            | mg/Kg |   | 67   | 70 - 130    | 15  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.04899    | F1            | mg/Kg |   | 49   | 70 - 130    | 22  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.09419    | F1            | mg/Kg |   | 47   | 70 - 130    | 25  | 35        |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.05296    | F1            | mg/Kg |   | 53   | 70 - 130    | 25  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27963/1-A

Matrix: Solid

Analysis Batch: 28185

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 |   |          | 06/24/22 11:13 | 1       |

Eurofins Carlsbad



## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

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

Lab Sample ID: LCS 880-27963/2-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 272.5      |               | mg/Kg |   | 109  | 90 - 110    |

Lab Sample ID: LCSD 880-27963/3-A

Matrix: Solid

Analysis Batch: 28185

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         | 274.8       |                | mg/Kg |   | 110  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-2428-A-1-G MS

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44610     |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 890-2428-A-1-H MSD

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44560      |               | mg/Kg |   | 105  | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

## GC VOA

## Prep Batch: 27967

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-27967/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28005

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2427-1         | SS01                   | Total/NA  | Solid  | 8021B  | 28063      |
| MB 880-27967/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 27967      |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 28063      |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 28063      |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 28063      |

## Prep Batch: 28063

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2427-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28144

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2427-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 28088

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2427-1    | SS01             | Total/NA  | Solid  | 8015B NM | 28163      |

## Analysis Batch: 28132

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2427-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |

## Prep Batch: 28163

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2427-1    | SS01             | Total/NA  | Solid  | 8015NM Prep |            |

## HPLC/IC

## Leach Batch: 27963

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2427-1         | SS01                   | Soluble   | Solid  | DI Leach |            |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum

Job ID: 890-2427-1

Project/Site: PLU 21 BD 104H, 123H, 124H

SDG: 03E1558053

## HPLC/IC

## Analysis Batch: 28185

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2427-1         | SS01                   | Soluble   | Solid  | 300.0  | 27963      |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 27963      |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 27963      |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 27963      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

Client Sample ID: SS01

Lab Sample ID: 890-2427-1

Date Collected: 06/17/22 12:35

Matrix: Solid

Date Received: 06/17/22 16:33

| 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         | 28063        | 06/21/22 14:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 28005        | 06/21/22 23:51       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 28144        | 06/22/22 12:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 28132        | 06/22/22 11:20       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 28163        | 06/22/22 14:48       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 28088        | 06/22/22 22:17       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 27963        | 06/21/22 12:47       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 50         |                |              | 28185        | 06/24/22 13:40       | SMC     | EET MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

Laboratory: Eurofins Midland

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-22-24      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2427-1  
SDG: 03E1558053

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2427-1    | SS01             | Solid  | 06/17/22 12:35 | 06/17/22 16:33 | 0.5'  |

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





Environment Testing  
Xenoco

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

## Chain of Custody

**Work Order No.:**

www.xenco.com Page 1 of 1

|                  |                         |                         |                      |
|------------------|-------------------------|-------------------------|----------------------|
| Project Manager: | Ben Bellil              | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensolum, LLC            | Company Name:           | XTO Energy, Inc.     |
| Address:         | 3122 National parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | bbellil@ensolum.com  |

| Work Order Comments |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program: UST/PST    | PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>                            |
| State of Project:   |                                                                                                                                                              |
| Reporting: Level II | <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: EDD   | <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____                                                                                         |

[illegible]

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |               |             |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-------------|-------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|----|---|---|----|
| 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 | Tl | Sn | U | V | Zn |
| Circle Method(s) and Metal(s) to be analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |               | TCLP / SPLP | 6010: | 8RCRA    | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  |    |   |    |    |                  |    |    |    |    |   |   |    |
| <p>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 \$35.00 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.</p> |              |               |             |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |
| <p>Hg: 1631 / 245, 1 / 7470 / 7471</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |               |             |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/17/22 1633 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2427-1

SDG Number: 03E1558053

**Login Number: 2427****List Number: 1****Creator: Stutzman, Amanda****List Source: Eurofins Carlsbad**

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2427-1

SDG Number: 03E1558053

**Login Number: 2427****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/21/22 11:48 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2428-1

Laboratory Sample Delivery Group: 03E1558053  
Client Project/Site: PLU 21 BD 104H,123H, 124H  
Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
9/13/2022 11:55:27 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Laboratory Job ID: 890-2428-1  
SDG: 03E1558053

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

## Qualifiers

## GC VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

**Job ID: 890-2428-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-2428-1

### REVISION

The report being provided is a revision of the original report sent on 6/24/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change.

Report revision history

### Receipt

The sample was received on 6/17/2022 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C

### GC VOA

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-28063 and analytical batch 880-28005 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-28063 and analytical batch 880-28005 was outside control limits. Sample matrix interference is suspected.

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

### GC Semi VOA

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

### HPLC/IC

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



## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

Client Sample ID: SS03

Lab Sample ID: 890-2428-1

Date Collected: 06/17/22 12:47

Matrix: Solid

Date Received: 06/17/22 16:33

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| o-Xylene            | <0.00200 | U *       | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86        |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 00:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 00:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 06/22/22 12:17 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 11800  |           | 250 | mg/Kg |   |          | 06/22/22 11:20 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 279    |           | 250 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 05:32 | 5       |
| Diesel Range Organics (Over C10-C28) | 7120   |           | 250 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 05:32 | 5       |
| Oil Range Organics (Over C28-C36)    | 4390   |           | 250 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 05:32 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 112       |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 05:32 | 5       |
| o-Terphenyl    | 106       |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 05:32 | 5       |

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

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 31300  |           | 252 | mg/Kg |   |          | 06/24/22 13:49 | 50      |

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# Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

## 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) |
| 890-2426-A-1-C MS                 | Matrix Spike           | 110                                            | 99                |
| 890-2426-A-1-D MSD                | Matrix Spike Duplicate | 91                                             | 93                |
| 890-2428-1                        | SS03                   | 86                                             | 96                |
| LCS 880-28063/1-A                 | Lab Control Sample     | 121                                            | 100               |
| LCSD 880-28063/2-A                | Lab Control Sample Dup | 110                                            | 104               |
| MB 880-27967/5-A                  | Method Blank           | 93                                             | 110               |
| MB 880-28063/5-A                  | Method Blank           | 95                                             | 107               |
| <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) |
| 890-2428-1              | SS03             | 112                                            | 106               |
| <b>Surrogate Legend</b> |                  |                                                |                   |
| 1CO = 1-Chlorooctane    |                  |                                                |                   |
| OTPH = o-Terphenyl      |                  |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-27967/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27967

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110          |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107          |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

Lab Sample ID: LCS 880-28063/1-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09845    |               | mg/Kg |   | 98   | 70 - 130    |
| Toluene             | 0.100       | 0.1157     |               | mg/Kg |   | 116  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1118     |               | mg/Kg |   | 112  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2330     |               | mg/Kg |   | 117  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1311     | *+            | mg/Kg |   | 131  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.1045      |                | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

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

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.1127      |                | mg/Kg |   | 113  | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1015      |                | mg/Kg |   | 102  | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2046      |                | mg/Kg |   | 102  | 70 - 130    | 13  | 35        |
| o-Xylene            | 0.100       | 0.1150      |                | mg/Kg |   | 115  | 70 - 130    | 13  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 110            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.07404   |              | mg/Kg |   | 74   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.07758   |              | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.06116   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.200       | 0.1209    | F1           | mg/Kg |   | 60   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.06788   | F1           | mg/Kg |   | 68   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 890-2426-A-1-D MSD

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.06494    | F1            | mg/Kg |   | 65   | 70 - 130    | 13  | 35        |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.06696    | F1            | mg/Kg |   | 67   | 70 - 130    | 15  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.04899    | F1            | mg/Kg |   | 49   | 70 - 130    | 22  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.09419    | F1            | mg/Kg |   | 47   | 70 - 130    | 25  | 35        |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.05296    | F1            | mg/Kg |   | 53   | 70 - 130    | 25  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27963/1-A

Matrix: Solid

Analysis Batch: 28185

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 |   |          | 06/24/22 11:13 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

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

Lab Sample ID: LCS 880-27963/2-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 272.5      |               | mg/Kg |   | 109  | 90 - 110    |

Lab Sample ID: LCSD 880-27963/3-A

Matrix: Solid

Analysis Batch: 28185

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         | 274.8       |                | mg/Kg |   | 110  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-2428-1 MS

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: SS03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 31300         |                  | 12600       | 44610     |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 890-2428-1 MSD

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: SS03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 31300         |                  | 12600       | 44560      |               | mg/Kg |   | 105  | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

## GC VOA

## Prep Batch: 27967

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-27967/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28005

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2428-1         | SS03                   | Total/NA  | Solid  | 8021B  | 28063      |
| MB 880-27967/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 27967      |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 28063      |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 28063      |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 28063      |

## Prep Batch: 28063

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2428-1         | SS03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28145

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2428-1    | SS03             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 27998

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2428-1    | SS03             | Total/NA  | Solid  | 8015B NM | 28045      |

## Prep Batch: 28045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2428-1    | SS03             | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 28133

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2428-1    | SS03             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 27963

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2428-1         | SS03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2428-1 MS      | SS03                   | Soluble   | Solid  | DI Leach |            |
| 890-2428-1 MSD     | SS03                   | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

## HPLC/IC

## Analysis Batch: 28185

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2428-1         | SS03                   | Soluble   | Solid  | 300.0  | 27963      |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 27963      |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 27963      |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-1 MS      | SS03                   | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-1 MSD     | SS03                   | Soluble   | Solid  | 300.0  | 27963      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

Client Sample ID: SS03

Lab Sample ID: 890-2428-1

Date Collected: 06/17/22 12:47

Matrix: Solid

Date Received: 06/17/22 16:33

| 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         | 28063        | 06/21/22 14:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 28005        | 06/22/22 00:12       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 28145        | 06/22/22 12:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 28133        | 06/22/22 11:20       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 28045        | 06/21/22 11:35       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 5          |                |              | 27998        | 06/22/22 05:32       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 27963        | 06/21/22 12:47       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 50         |                |              | 28185        | 06/24/22 13:49       | SMC     | EET MID |

## Laboratory References:

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



Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

Laboratory: Eurofins Midland

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-22-24      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H, 124H

Job ID: 890-2428-1  
SDG: 03E1558053

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2428-1    | SS03             | Solid  | 06/17/22 12:47 | 06/17/22 16:33 | 0.5'  |

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Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

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

Page 1 of 1  
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|                  |  |                         |  |                         |  |                      |  |
|------------------|--|-------------------------|--|-------------------------|--|----------------------|--|
| Project Manager: |  | Ben Bellill             |  | Bill to: (if different) |  | Garrett Green        |  |
| Company Name:    |  | Ensolum, LLC            |  | Company Name:           |  | XTO Energy, Inc.     |  |
| Address:         |  | 3122 National parks Hwy |  | Address:                |  | 3104 E. Green Street |  |
| City, State ZIP: |  | Carlsbad, NM 88220      |  | City, State ZIP:        |  | Carlsbad, NM 88220   |  |
| Phone:           |  | 9898540852              |  | Email:                  |  | bbellill@ensolum.com |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| <div> <div>Work Order Comments</div> <div> <div> <div>Program:</div> <div>UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/></div> </div> <div> <div>State of Project:</div> <div>Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/></div> </div> <div> <div>Deliverables:</div> <div>EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:</div> </div> </div> </div> |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|

[illegible]

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                  |                              |                          |           |                                                |  |                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------------|--------------------------|-----------|------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                  |                              | TC1P / 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                                                                |  |
| <p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p> |                          |                  |                              |                          |           |                                                |  |                                                                                               |  |
| Relinquished by: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Received by: (Signature) | Date/Time        | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |                                                |  |                                                                                               |  |
| <i>Gregory P. L...</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Anna...</i>           | 16/17/2020 16:33 |                              |                          |           |                                                |  |                                                                                               |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                  | 4                            |                          |           |                                                |  |                                                                                               |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                  | 6                            |                          |           |                                                |  |                                                                                               |  |
| Revised Date: 08/25/2020 Rev. 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                  |                              |                          |           |                                                |  |                                                                                               |  |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2428-1

SDG Number: 03E1558053

Login Number: 2428

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2428-1

SDG Number: 03E1558053

**Login Number: 2428****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/21/22 10:52 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2429-1

Laboratory Sample Delivery Group: 03E1558053

Client Project/Site: PLU 21 BD 104H, 123H, & 124H

Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

Authorized for release by:

9/13/2022 11:59:32 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Laboratory Job ID: 890-2429-1  
SDG: 03E1558053

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

**Job ID: 890-2429-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-2429-1

### REVISION

The report being provided is a revision of the original report sent on 6/24/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change.

Report revision history

### Receipt

The sample was received on 6/17/2022 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C

### GC VOA

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-28063 and analytical batch 880-28005 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-28063 and analytical batch 880-28005 was outside control limits. Sample matrix interference is suspected.

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

### GC Semi VOA

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

### HPLC/IC

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

Client Sample ID: SS04

Lab Sample ID: 890-2429-1

Date Collected: 06/17/22 12:55

Matrix: Solid

Date Received: 06/17/22 16:33

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| o-Xylene            | <0.00199 | U *       | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 00:33 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 00:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 00:33 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 06/22/22 12:17 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 292    |           | 50.0 | mg/Kg |   |          | 06/22/22 11:20 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 03:48 | 1       |
| Diesel Range Organics (Over C10-C28) | 115    |           | 50.0 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 03:48 | 1       |
| Oil Range Organics (Over C28-C36)    | 177    |           | 50.0 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 03:48 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91        |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 03:48 | 1       |
| o-Terphenyl    | 99        |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 03:48 | 1       |

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

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 12600  |           | 100 | mg/Kg |   |          | 06/24/22 14:17 | 20      |

Eurofins Carlsbad

# Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

## 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) |
| 890-2426-A-1-C MS                 | Matrix Spike           | 110                                            | 99                |
| 890-2426-A-1-D MSD                | Matrix Spike Duplicate | 91                                             | 93                |
| 890-2429-1                        | SS04                   | 96                                             | 101               |
| LCS 880-28063/1-A                 | Lab Control Sample     | 121                                            | 100               |
| LCSD 880-28063/2-A                | Lab Control Sample Dup | 110                                            | 104               |
| MB 880-27967/5-A                  | Method Blank           | 93                                             | 110               |
| MB 880-28063/5-A                  | Method Blank           | 95                                             | 107               |
| <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) |
| 880-16078-A-21-B MS     | Matrix Spike           | 82                                             | 79                |
| 880-16078-A-21-C MSD    | Matrix Spike Duplicate | 86                                             | 82                |
| 890-2429-1              | SS04                   | 91                                             | 99                |
| LCS 880-28045/2-A       | Lab Control Sample     | 104                                            | 110               |
| LCSD 880-28045/3-A      | Lab Control Sample Dup | 104                                            | 113               |
| MB 880-28045/1-A        | Method Blank           | 102                                            | 119               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-27967/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27967

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110          |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107          |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

Lab Sample ID: LCS 880-28063/1-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09845    |               | mg/Kg |   | 98   | 70 - 130    |
| Toluene             | 0.100       | 0.1157     |               | mg/Kg |   | 116  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1118     |               | mg/Kg |   | 112  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2330     |               | mg/Kg |   | 117  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1311     | *+            | mg/Kg |   | 131  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.1045      |                | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

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

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.1127      |                | mg/Kg |   | 113  | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1015      |                | mg/Kg |   | 102  | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2046      |                | mg/Kg |   | 102  | 70 - 130    | 13  | 35        |
| o-Xylene            | 0.100       | 0.1150      |                | mg/Kg |   | 115  | 70 - 130    | 13  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 110            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.07404   |              | mg/Kg |   | 74   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.07758   |              | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.06116   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.200       | 0.1209    | F1           | mg/Kg |   | 60   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.06788   | F1           | mg/Kg |   | 68   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 890-2426-A-1-D MSD

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.06494    | F1            | mg/Kg |   | 65   | 70 - 130    | 13  | 35        |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.06696    | F1            | mg/Kg |   | 67   | 70 - 130    | 15  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.04899    | F1            | mg/Kg |   | 49   | 70 - 130    | 22  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.09419    | F1            | mg/Kg |   | 47   | 70 - 130    | 25  | 35        |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.05296    | F1            | mg/Kg |   | 53   | 70 - 130    | 25  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

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

Lab Sample ID: MB 880-28045/1-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28045

| 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 |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-28045/1-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28045

| 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 |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102          |              | 70 - 130 |       |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| o-Terphenyl                          | 119          |              | 70 - 130 |       |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |

Lab Sample ID: LCS 880-28045/2-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 992.5         |               | mg/Kg |   | 99   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000          | 1042          |               | mg/Kg |   | 104  | 70 - 130    |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |             |
| 1-Chlorooctane                       | 104           |               | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 110           |               | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-28045/3-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1036           |                | mg/Kg |   | 104  | 70 - 130    | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 1061           |                | mg/Kg |   | 106  | 70 - 130    | 2   | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 104            |                | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 113            |                | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 880-16078-A-21-B MS

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 905.3     |              | mg/Kg |   | 87   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 998         | 799.1     |              | mg/Kg |   | 80   | 70 - 130    |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |             |
| 1-Chlorooctane                       | 82            |                  | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 79            |                  | 70 - 130    |           |              |       |   |      |             |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

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

Lab Sample ID: 880-16078-A-21-C MSD

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 999         | 933.1      |               | mg/Kg |   | 89   | 70 - 130    | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 999         | 845.4      |               | mg/Kg |   | 85   | 70 - 130    | 6   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 86            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 82            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27963/1-A

Matrix: Solid

Analysis Batch: 28185

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 |   |          | 06/24/22 11:13 | 1       |

Lab Sample ID: LCS 880-27963/2-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 272.5      |               | mg/Kg |   | 109  | 90 - 110    |

Lab Sample ID: LCSD 880-27963/3-A

Matrix: Solid

Analysis Batch: 28185

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         | 274.8       |                | mg/Kg |   | 110  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-2428-A-1-G MS

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44610     |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 890-2428-A-1-H MSD

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44560      |               | mg/Kg |   | 105  | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

## GC VOA

## Prep Batch: 27967

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-27967/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28005

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2429-1         | SS04                   | Total/NA  | Solid  | 8021B  | 28063      |
| MB 880-27967/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 27967      |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 28063      |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 28063      |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 28063      |

## Prep Batch: 28063

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2429-1         | SS04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2429-1    | SS04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 27998

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-2429-1           | SS04                   | Total/NA  | Solid  | 8015B NM | 28045      |
| MB 880-28045/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 28045      |
| LCS 880-28045/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 28045      |
| LCSD 880-28045/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 28045      |
| 880-16078-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 28045      |
| 880-16078-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 28045      |

## Prep Batch: 28045

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-2429-1           | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-28045/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-28045/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-28045/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-16078-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-16078-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 28128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2429-1    | SS04             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

## HPLC/IC

## Leach Batch: 27963

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2429-1         | SS04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 28185

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2429-1         | SS04                   | Soluble   | Solid  | 300.0  | 27963      |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 27963      |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 27963      |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 27963      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

Client Sample ID: SS04

Lab Sample ID: 890-2429-1

Date Collected: 06/17/22 12:55

Matrix: Solid

Date Received: 06/17/22 16:33

| 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         | 28063        | 06/21/22 14:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 28005        | 06/22/22 00:33       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 28146        | 06/22/22 12:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 28128        | 06/22/22 11:20       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 28045        | 06/21/22 11:35       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27998        | 06/22/22 03:48       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 27963        | 06/21/22 12:47       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 28185        | 06/24/22 14:17       | SMC     | EET MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

Laboratory: Eurofins Midland

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-22-24      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, & 124H

Job ID: 890-2429-1  
SDG: 03E1558053

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2429-1    | SS04             | Solid  | 06/17/22 12:55 | 06/17/22 16:33 | 0.5'  |

- 1
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- 14



Environmental Testing  
Xenoco

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

## Chain of Custody

**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:           | XTO Energy, Inc.     |
| Address:         | 3122 National parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | bbelli@ensolum.com   |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: \_\_\_\_\_

[illegible]

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |               |                         |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-------------------------|-------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|----|---|---|----|
| 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 | 11 | 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  |    |    |   |    |    |                  |    |    |    |    |   |   |    |
| <p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p> |                             |               |                         |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |
| <p>Hq. 1631 / 245.1 / 7470 / 7471</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |               |                         |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|----------------|------------------------------|--------------------------|-----------|
| 1. <i>Stephanie Robinson</i> | <i>Shirley D. Smith</i>  | 01/17/22 16:35 |                              |                          |           |
| 2                            |                          |                |                              |                          |           |
| 3                            |                          |                |                              |                          |           |
| 4                            |                          |                |                              |                          |           |
| 5                            |                          |                |                              |                          |           |
| 6                            |                          |                |                              |                          |           |

Revised Date 01/25/2020 Rev. 2020

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2429-1

SDG Number: 03E1558053

**Login Number: 2429****List Number: 1****Creator: Stutzman, Amanda****List Source: Eurofins Carlsbad**

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



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2429-1

SDG Number: 03E1558053

**Login Number: 2429****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/21/22 10:52 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2431-1

Laboratory Sample Delivery Group: 03E1558053  
Client Project/Site: PLU 21 BD 104H, 123H, 124H  
Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
9/13/2022 11:53:05 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Laboratory Job ID: 890-2431-1  
SDG: 03E1558053

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## Definitions/Glossary

Client: Ensolum

Job ID: 890-2431-1

Project/Site: PLU 21 BD 104H, 123H, 124H

SDG: 03E1558053

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

Eurofins Carlsbad

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

**Job ID: 890-2431-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-2431-1

### REVISION

The report being provided is a revision of the original report sent on 6/24/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change.

Report revision history

### Receipt

The sample was received on 6/17/2022 4:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C

### GC VOA

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-28063 and analytical batch 880-28005 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-28063 and analytical batch 880-28005 was outside control limits. Sample matrix interference is suspected.

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

### GC Semi VOA

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

### HPLC/IC

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

Client Sample ID: SS02

Lab Sample ID: 890-2431-1

Date Collected: 06/17/22 12:41

Matrix: Solid

Date Received: 06/17/22 16:33

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| o-Xylene            | <0.00199 | U *       | 0.00199 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/21/22 14:42 | 06/22/22 01:14 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 01:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 06/21/22 14:42 | 06/22/22 01:14 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 06/22/22 12:17 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 5070   |           | 49.9 | mg/Kg |   |          | 06/22/22 11:20 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 04:09 | 1       |
| Diesel Range Organics (Over C10-C28) | 3910   |           | 49.9 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 04:09 | 1       |
| Oil Range Organics (Over C28-C36)    | 1160   |           | 49.9 | mg/Kg |   | 06/21/22 11:35 | 06/22/22 04:09 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97        |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 04:09 | 1       |
| o-Terphenyl    | 113       |           | 70 - 130 | 06/21/22 11:35 | 06/22/22 04:09 | 1       |

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

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 16900  |           | 100 | mg/Kg |   |          | 06/24/22 14:54 | 20      |

Eurofins Carlsbad

# Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

## 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) |
| 890-2426-A-1-C MS                 | Matrix Spike           | 110                                            | 99                |
| 890-2426-A-1-D MSD                | Matrix Spike Duplicate | 91                                             | 93                |
| 890-2431-1                        | SS02                   | 91                                             | 103               |
| LCS 880-28063/1-A                 | Lab Control Sample     | 121                                            | 100               |
| LCSD 880-28063/2-A                | Lab Control Sample Dup | 110                                            | 104               |
| MB 880-27967/5-A                  | Method Blank           | 93                                             | 110               |
| MB 880-28063/5-A                  | Method Blank           | 95                                             | 107               |
| <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) |
| 880-16078-A-21-B MS     | Matrix Spike           | 82                                             | 79                |
| 880-16078-A-21-C MSD    | Matrix Spike Duplicate | 86                                             | 82                |
| 890-2431-1              | SS02                   | 97                                             | 113               |
| LCS 880-28045/2-A       | Lab Control Sample     | 104                                            | 110               |
| LCSD 880-28045/3-A      | Lab Control Sample Dup | 104                                            | 113               |
| MB 880-28045/1-A        | Method Blank           | 102                                            | 119               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-27967/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27967

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110          |              | 70 - 130 | 06/20/22 15:20 | 06/21/22 12:25 | 1       |

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107          |              | 70 - 130 | 06/21/22 14:42 | 06/21/22 23:09 | 1       |

Lab Sample ID: LCS 880-28063/1-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09845    |               | mg/Kg |   | 98   | 70 - 130    |
| Toluene             | 0.100       | 0.1157     |               | mg/Kg |   | 116  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1118     |               | mg/Kg |   | 112  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2330     |               | mg/Kg |   | 117  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1311     | *+            | mg/Kg |   | 131  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.1045      |                | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

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

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.1127      |                | mg/Kg |   | 113  | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1015      |                | mg/Kg |   | 102  | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2046      |                | mg/Kg |   | 102  | 70 - 130    | 13  | 35        |
| o-Xylene            | 0.100       | 0.1150      |                | mg/Kg |   | 115  | 70 - 130    | 13  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 110            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.07404   |              | mg/Kg |   | 74   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.07758   |              | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.06116   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.200       | 0.1209    | F1           | mg/Kg |   | 60   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.06788   | F1           | mg/Kg |   | 68   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 890-2426-A-1-D MSD

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28063

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F1             | 0.100       | 0.06494    | F1            | mg/Kg |   | 65   | 70 - 130    | 13  | 35        |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.06696    | F1            | mg/Kg |   | 67   | 70 - 130    | 15  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.04899    | F1            | mg/Kg |   | 49   | 70 - 130    | 22  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.09419    | F1            | mg/Kg |   | 47   | 70 - 130    | 25  | 35        |
| o-Xylene            | <0.00199      | U F1 **          | 0.100       | 0.05296    | F1            | mg/Kg |   | 53   | 70 - 130    | 25  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

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

Lab Sample ID: MB 880-28045/1-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28045

| 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 |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

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

Lab Sample ID: MB 880-28045/1-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28045

| 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 |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102          |              | 70 - 130 |       |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |
| o-Terphenyl                          | 119          |              | 70 - 130 |       |   | 06/21/22 11:35 | 06/21/22 21:37 | 1       |

Lab Sample ID: LCS 880-28045/2-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 992.5         |               | mg/Kg |   | 99   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000          | 1042          |               | mg/Kg |   | 104  | 70 - 130    |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |             |
| 1-Chlorooctane                       | 104           |               | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 110           |               | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-28045/3-A

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1036           |                | mg/Kg |   | 104  | 70 - 130    | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 1061           |                | mg/Kg |   | 106  | 70 - 130    | 2   | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 104            |                | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 113            |                | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 880-16078-A-21-B MS

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 905.3     |              | mg/Kg |   | 87   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 998         | 799.1     |              | mg/Kg |   | 80   | 70 - 130    |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |             |
| 1-Chlorooctane                       | 82            |                  | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 79            |                  | 70 - 130    |           |              |       |   |      |             |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

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

Lab Sample ID: 880-16078-A-21-C MSD

Matrix: Solid

Analysis Batch: 27998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28045

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 999         | 933.1      |               | mg/Kg |   | 89   | 70 - 130    | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 999         | 845.4      |               | mg/Kg |   | 85   | 70 - 130    | 6   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 86            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 82            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27963/1-A

Matrix: Solid

Analysis Batch: 28185

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 |   |          | 06/24/22 11:13 | 1       |

Lab Sample ID: LCS 880-27963/2-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 272.5      |               | mg/Kg |   | 109  | 90 - 110    |

Lab Sample ID: LCSD 880-27963/3-A

Matrix: Solid

Analysis Batch: 28185

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         | 274.8       |                | mg/Kg |   | 110  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-2428-A-1-G MS

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44610     |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 890-2428-A-1-H MSD

Matrix: Solid

Analysis Batch: 28185

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 | 31300         |                  | 12600       | 44560      |               | mg/Kg |   | 105  | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

## GC VOA

## Prep Batch: 27967

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-27967/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28005

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2431-1         | SS02                   | Total/NA  | Solid  | 8021B  | 28063      |
| MB 880-27967/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 27967      |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 28063      |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 28063      |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 28063      |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 28063      |

## Prep Batch: 28063

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2431-1         | SS02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-28063/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-28063/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-28063/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2426-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 28148

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2431-1    | SS02             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 27998

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-2431-1           | SS02                   | Total/NA  | Solid  | 8015B NM | 28045      |
| MB 880-28045/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 28045      |
| LCS 880-28045/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 28045      |
| LCSD 880-28045/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 28045      |
| 880-16078-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 28045      |
| 880-16078-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 28045      |

## Prep Batch: 28045

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-2431-1           | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-28045/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-28045/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-28045/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-16078-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-16078-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 28129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2431-1    | SS02             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

## HPLC/IC

## Leach Batch: 27963

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2431-1         | SS02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 28185

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2431-1         | SS02                   | Soluble   | Solid  | 300.0  | 27963      |
| MB 880-27963/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 27963      |
| LCS 880-27963/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 27963      |
| LCSD 880-27963/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-G MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 27963      |
| 890-2428-A-1-H MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 27963      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

Client Sample ID: SS02

Lab Sample ID: 890-2431-1

Date Collected: 06/17/22 12:41

Matrix: Solid

Date Received: 06/17/22 16:33

| 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         | 28063        | 06/21/22 14:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 28005        | 06/22/22 01:14       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 28148        | 06/22/22 12:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 28129        | 06/22/22 11:20       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 28045        | 06/21/22 11:35       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27998        | 06/22/22 04:09       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 27963        | 06/21/22 12:47       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 28185        | 06/24/22 14:54       | SMC     | EET MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

Laboratory: Eurofins Midland

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-22-24      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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



Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2431-1  
SDG: 03E1558053

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2431-1    | SS02             | Solid  | 06/17/22 12:41 | 06/17/22 16:33 | 0.5   |

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Environment Testing  
Xenco

## Chain of Custody

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

**Work Order No:**

www.xenco.com Page 1 of 1

|                  |                         |                         |                      |
|------------------|-------------------------|-------------------------|----------------------|
| Project Manager: | Ben Bell                | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensolum, LLC            | Company Name:           | XTO Energy, Inc.     |
| Address:         | 3122 National parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | bbelllll@ensolum.com |

| Work Order Comments                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>      |  |
| State of Project:                                                                                                                                                                |  |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                                                 |  |

|                                                                                                                                                     |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|----------------------------|
| ANALYSIS REQUEST                                                                                                                                    |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  | Preservative Codes                              |                            |
| Project Name:                                                                                                                                       | PLU 21 BD 104H, 123H, & 124H                                        | Turn Around                                                               |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  | None: NO                                        | DI Water: H <sub>2</sub> O |
| Project Number:                                                                                                                                     | 03E1558053                                                          | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  | Cool: Cool                                      | MeOH: Me                   |
| Project Location:                                                                                                                                   | EDDY COUNTY, NM                                                     | Due Date:                                                                 |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  | HCL: HC                                         | HNO <sub>3</sub> : HN      |
| Sampler's Name:                                                                                                                                     | GREG FALGOUT                                                        | TAT starts the day received by the lab, if received by 4:30pm             |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> | NaOH: Na                   |
| PO #:                                                                                                                                               |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| <b>SAMPLE RECEIPT</b>                                                                                                                               |                                                                     | Temp Blank:                                                               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice:     | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  <p>890-2431 Chain of Custody</p> |           |                                                                                                               |  |                                                 |                            |
| Samples Received Intact:                                                                                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID:                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| Cooler Custody Seals:                                                                                                                               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor:                                                        |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| Sample Custody Seals:                                                                                                                               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading:                                                      |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| Total Containers:                                                                                                                                   |                                                                     | Corrected Temperature:                                                    |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| Sample Identification                                                                                                                               |                                                                     | Matrix                                                                    | Date Sampled                                                        | Time Sampled | Depth                                                               | Grab/Comp                                                                                                            | # of Cont | <div> <div>CHLORIDES (EPA: 300.0)</div> <div>TPH (8015)</div> <div>BTEX (8021)</div> </div>                   |  |                                                 |                            |
| SS05                                                                                                                                                | S                                                                   | 6/17/2022                                                                 | 12:41                                                               | 0.5'         | Grab/                                                               | 1                                                                                                                    |           |                                                                                                               |  |                                                 |                            |
|                                                                                                                                                     |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
|                                                                                                                                                     |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
|                                                                                                                                                     |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           |                                                                                                               |  |                                                 |                            |
| <div> <div>Incident Numbers:</div> <div>NAPP2209736479,</div> <div>NAPP2210942764,</div> <div>NAPP2211651017,</div> <div>NAPP221151438</div> </div> |                                                                     |                                                                           |                                                                     |              |                                                                     |                                                                                                                      |           | <div> <div>Sample Comments</div> <div>Cost Centers: 1666351001,</div> <div>1666401001, 166601001</div> </div> |  |                                                 |                            |

|                                                     |                      |                                |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |
|-----------------------------------------------------|----------------------|--------------------------------|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|----|---|---|----|
| <b>Total 200.7 / 6010</b>                           | <b>200.8 / 6020:</b> | 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 |
| <b>Circle Method(s) and Metal(s) to be analyzed</b> |                      | TCLP / SPLP                    |       | 6010: | 8RCRA | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  |    |   |    |    |                  |    |    |    |    |   |   |    |
|                                                     |                      | Hg: 1631 / 245.1 / 7470 / 7471 |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |

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

|   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time     | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| 1 | <i>[Signature]</i>           | <i>[Signature]</i>       | 6/17/20 16:39 |                              |                          |           |
| 2 |                              |                          |               |                              |                          |           |
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| 5 |                              |                          |               |                              |                          |           |

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## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2431-1

SDG Number: 03E1558053

**Login Number: 2431****List Number: 1****Creator: Stutzman, Amanda****List Source: Eurofins Carlsbad**

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2431-1

SDG Number: 03E1558053

**Login Number: 2431****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/21/22 10:52 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2874-1

Laboratory Sample Delivery Group: 03E1558048

Client Project/Site: PLU 21 BD 104H 123H 124H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

9/12/2022 9:24:17 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Laboratory Job ID: 890-2874-1  
SDG: 03E1558048

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## Definitions/Glossary

Client: Ensolum

Job ID: 890-2874-1

Project/Site: PLU 21 BD 104H 123H 124H

SDG: 03E1558048

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

---

**Job ID: 890-2874-1**

---

**Laboratory: Eurofins Carlsbad****Narrative**

---

**Job Narrative  
890-2874-1****Receipt**

The samples were received on 9/1/2022 9:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33652/2-A) and (LCSD 880-33652/3-A). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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



## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Client Sample ID: PH01

Lab Sample ID: 890-2874-1

Date Collected: 08/31/22 09:05

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 68        | S1-       | 70 - 130 | 09/09/22 12:42 | 09/10/22 21:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 09/09/22 12:42 | 09/10/22 21:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/12/22 10:05 | 1       |

## Method: 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 |   |          | 09/06/22 12:59 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:07 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 125       |           | 70 - 130 | 09/02/22 13:37 | 09/03/22 03:07 | 1       |
| o-Terphenyl    | 125       |           | 70 - 130 | 09/02/22 13:37 | 09/03/22 03:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 259    |           | 4.98 | mg/Kg |   |          | 09/09/22 03:25 | 1       |

Client Sample ID: PH02

Lab Sample ID: 890-2874-2

Date Collected: 08/31/22 09:20

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 21:39 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 64        | S1-       | 70 - 130 | 09/09/22 12:42 | 09/10/22 21:39 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Client Sample ID: PH02

Lab Sample ID: 890-2874-2

Date Collected: 08/31/22 09:20

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 102       |           | 70 - 130 | 09/09/22 12:42 | 09/10/22 21:39 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 09/12/22 10:05 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/06/22 12:59 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 127       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 03:29 | 1       |
| o-Terphenyl                          | 124       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 03:29 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 51.7   |           | 5.00 | mg/Kg |   |          | 09/09/22 03:30 | 1       |

Client Sample ID: PH03

Lab Sample ID: 890-2874-3

Date Collected: 08/31/22 09:30

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 09/09/22 12:42 | 09/10/22 22:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 09/09/22 12:42 | 09/10/22 22:05 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 09/12/22 10:05 | 1       |

## Method: 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 |   |          | 09/06/22 12:59 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

## Client Sample ID: PH03

Lab Sample ID: 890-2874-3

Date Collected: 08/31/22 09:30

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 03:50 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 121       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 03:50 | 1       |
| o-Terphenyl                          | 119       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 03:50 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 541    |           | 5.02 | mg/Kg |   |          | 09/09/22 03:35 | 1       |

## Client Sample ID: PH04

Lab Sample ID: 890-2874-4

Date Collected: 08/31/22 09:40

Matrix: Solid

Date Received: 09/01/22 09:21

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |       |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |       |   | 09/09/22 12:42 | 09/10/22 22:30 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 09/12/22 10:05 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/06/22 12:59 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 04:12 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 04:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/02/22 13:37 | 09/03/22 04:12 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 04:12 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |       |   | 09/02/22 13:37 | 09/03/22 04:12 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Client Sample ID: PH04  
Date Collected: 08/31/22 09:40  
Date Received: 09/01/22 09:21  
Sample Depth: 2

Lab Sample ID: 890-2874-4  
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|------------------------------------------------------|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte                                              | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride                                             | 644    |           | 5.01 | mg/Kg |   |          | 09/09/22 03:49 | 1       |  |

## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

## 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) |
| 890-2873-A-1-C MS                 | Matrix Spike           | 93                                             | 98                |
| 890-2873-A-1-D MSD                | Matrix Spike Duplicate | 85                                             | 101               |
| 890-2874-1                        | PH01                   | 68 S1-                                         | 99                |
| 890-2874-2                        | PH02                   | 64 S1-                                         | 102               |
| 890-2874-3                        | PH03                   | 91                                             | 103               |
| 890-2874-4                        | PH04                   | 92                                             | 105               |
| LCS 880-34108/1-A                 | Lab Control Sample     | 89                                             | 102               |
| LCSD 880-34108/2-A                | Lab Control Sample Dup | 92                                             | 102               |
| MB 880-34108/5-A                  | Method Blank           | 62 S1-                                         | 91                |
| <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) |
| 880-18785-A-1-E MS      | Matrix Spike           | 90                                             | 78                |
| 880-18785-A-1-F MSD     | Matrix Spike Duplicate | 90                                             | 77                |
| 890-2874-1              | PH01                   | 125                                            | 125               |
| 890-2874-2              | PH02                   | 127                                            | 124               |
| 890-2874-3              | PH03                   | 121                                            | 119               |
| 890-2874-4              | PH04                   | 105                                            | 104               |
| LCS 880-33652/2-A       | Lab Control Sample     | 141 S1+                                        | 144 S1+           |
| LCSD 880-33652/3-A      | Lab Control Sample Dup | 144 S1+                                        | 146 S1+           |
| MB 880-33652/1-A        | Method Blank           | 110                                            | 115               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-34108/5-A

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34108

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/09/22 12:42 | 09/10/22 18:08 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 62           | S1-          | 70 - 130 | 09/09/22 12:42 | 09/10/22 18:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91           |              | 70 - 130 | 09/09/22 12:42 | 09/10/22 18:08 | 1       |

Lab Sample ID: LCS 880-34108/1-A

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34108

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1052     |               | mg/Kg |   | 105  | 70 - 130    |
| Toluene             | 0.100       | 0.1014     |               | mg/Kg |   | 101  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09875    |               | mg/Kg |   | 99   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2025     |               | mg/Kg |   | 101  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1001     |               | mg/Kg |   | 100  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 89            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34108/2-A

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34108

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1002      |                | mg/Kg |   | 100  | 70 - 130    | 5   | 35        |
| Toluene             | 0.100       | 0.09534     |                | mg/Kg |   | 95   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.08911     |                | mg/Kg |   | 89   | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1817      |                | mg/Kg |   | 91   | 70 - 130    | 11  | 35        |
| o-Xylene            | 0.100       | 0.09305     |                | mg/Kg |   | 93   | 70 - 130    | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 92             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102            |                | 70 - 130 |

Lab Sample ID: 890-2873-A-1-C MS

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34108

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00201      | U                | 0.0996      | 0.08819   |              | mg/Kg |   | 89   | 70 - 130    |
| Toluene | <0.00201      | U                | 0.0996      | 0.08582   |              | mg/Kg |   | 86   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

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

Lab Sample ID: 890-2873-A-1-C MS

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34108

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00201      | U                | 0.0996      | 0.08214   |              | mg/Kg |   | 82   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.199       | 0.1681    |              | mg/Kg |   | 84   | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.0996      | 0.08247   |              | mg/Kg |   | 83   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 |

Lab Sample ID: 890-2873-A-1-D MSD

Matrix: Solid

Analysis Batch: 34150

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34108

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00201      | U                | 0.0998      | 0.09043    |               | mg/Kg |   | 91   | 70 - 130    | 3   | 35        |
| Toluene             | <0.00201      | U                | 0.0998      | 0.08837    |               | mg/Kg |   | 89   | 70 - 130    | 3   | 35        |
| Ethylbenzene        | <0.00201      | U                | 0.0998      | 0.08669    |               | mg/Kg |   | 87   | 70 - 130    | 5   | 35        |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1765     |               | mg/Kg |   | 88   | 70 - 130    | 5   | 35        |
| o-Xylene            | <0.00201      | U                | 0.0998      | 0.08671    |               | mg/Kg |   | 87   | 70 - 130    | 5   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 85            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

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

Lab Sample ID: MB 880-33652/1-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33652

| 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 |   | 09/02/22 13:37 | 09/02/22 19:12 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 09/02/22 13:37 | 09/02/22 19:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 09/02/22 13:37 | 09/02/22 19:12 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 110          |              | 70 - 130 | 09/02/22 13:37 | 09/02/22 19:12 | 1       |
| o-Terphenyl    | 115          |              | 70 - 130 | 09/02/22 13:37 | 09/02/22 19:12 | 1       |

Lab Sample ID: LCS 880-33652/2-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33652

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 897.3      |               | mg/Kg |   | 90   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 906.9      |               | mg/Kg |   | 91   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

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

Lab Sample ID: LCS 880-33652/2-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33652

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 141       | S1+       | 70 - 130 |
| o-Terphenyl    | 144       | S1+       | 70 - 130 |

Lab Sample ID: LCSD 880-33652/3-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33652

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 916.7       |                | mg/Kg |   | 92   | 70 - 130    | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 923.6       |                | mg/Kg |   | 92   | 70 - 130    | 2   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 144       | S1+       | 70 - 130 |
| o-Terphenyl    | 146       | S1+       | 70 - 130 |

Lab Sample ID: 880-18785-A-1-E MS

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33652

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 999         | 898.3     |              | mg/Kg |   | 88   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 999         | 847.2     |              | mg/Kg |   | 85   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 78        |           | 70 - 130 |

Lab Sample ID: 880-18785-A-1-F MSD

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33652

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 889.0      |               | mg/Kg |   | 87   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 998         | 842.9      |               | mg/Kg |   | 84   | 70 - 130    | 1   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 77        |           | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33691/1-A

Matrix: Solid

Analysis Batch: 33933

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 |   |          | 09/09/22 02:38 | 1       |

Lab Sample ID: LCS 880-33691/2-A

Matrix: Solid

Analysis Batch: 33933

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            | 240.6         |                  | mg/Kg |   | 96   | 90 - 110       |

Lab Sample ID: LCSD 880-33691/3-A

Matrix: Solid

Analysis Batch: 33933

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            | 241.4          |                   | mg/Kg |   | 97   | 90 - 110       | 0   | 20           |

Lab Sample ID: 890-2874-3 MS

Matrix: Solid

Analysis Batch: 33933

Client Sample ID: PH03

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 | 541              |                     | 251            | 769.3        |                 | mg/Kg |   | 91   | 90 - 110       |

Lab Sample ID: 890-2874-3 MSD

Matrix: Solid

Analysis Batch: 33933

Client Sample ID: PH03

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 | 541              |                     | 251            | 768.7         |                  | mg/Kg |   | 91   | 90 - 110       | 0   | 20           |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

## GC VOA

## Prep Batch: 34108

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2874-1         | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-2874-2         | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-2874-3         | PH03                   | Total/NA  | Solid  | 5035   |            |
| 890-2874-4         | PH04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34108/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34108/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34108/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2873-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2873-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34150

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2874-1         | PH01                   | Total/NA  | Solid  | 8021B  | 34108      |
| 890-2874-2         | PH02                   | Total/NA  | Solid  | 8021B  | 34108      |
| 890-2874-3         | PH03                   | Total/NA  | Solid  | 8021B  | 34108      |
| 890-2874-4         | PH04                   | Total/NA  | Solid  | 8021B  | 34108      |
| MB 880-34108/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34108      |
| LCS 880-34108/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34108      |
| LCSD 880-34108/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34108      |
| 890-2873-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 34108      |
| 890-2873-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 34108      |

## Analysis Batch: 34261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2874-1    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2874-2    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2874-3    | PH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2874-4    | PH04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 33584

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2874-1          | PH01                   | Total/NA  | Solid  | 8015B NM | 33652      |
| 890-2874-2          | PH02                   | Total/NA  | Solid  | 8015B NM | 33652      |
| 890-2874-3          | PH03                   | Total/NA  | Solid  | 8015B NM | 33652      |
| 890-2874-4          | PH04                   | Total/NA  | Solid  | 8015B NM | 33652      |
| MB 880-33652/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 33652      |
| LCS 880-33652/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 33652      |
| LCSD 880-33652/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 33652      |
| 880-18785-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 33652      |
| 880-18785-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 33652      |

## Prep Batch: 33652

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-2874-1        | PH01               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2874-2        | PH02               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2874-3        | PH03               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2874-4        | PH04               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-33652/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-33652/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

## GC Semi VOA (Continued)

## Prep Batch: 33652 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-33652/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-18785-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-18785-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 33845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2874-1    | PH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2874-2    | PH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2874-3    | PH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2874-4    | PH04             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 33691

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2874-1         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-2874-2         | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-2874-3         | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-2874-4         | PH04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-33691/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-33691/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-33691/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2874-3 MS      | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-2874-3 MSD     | PH03                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 33933

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2874-1         | PH01                   | Soluble   | Solid  | 300.0  | 33691      |
| 890-2874-2         | PH02                   | Soluble   | Solid  | 300.0  | 33691      |
| 890-2874-3         | PH03                   | Soluble   | Solid  | 300.0  | 33691      |
| 890-2874-4         | PH04                   | Soluble   | Solid  | 300.0  | 33691      |
| MB 880-33691/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 33691      |
| LCS 880-33691/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 33691      |
| LCSD 880-33691/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 33691      |
| 890-2874-3 MS      | PH03                   | Soluble   | Solid  | 300.0  | 33691      |
| 890-2874-3 MSD     | PH03                   | Soluble   | Solid  | 300.0  | 33691      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Client Sample ID: PH01

Lab Sample ID: 890-2874-1

Date Collected: 08/31/22 09:05

Matrix: Solid

Date Received: 09/01/22 09:21

| 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         | 34108        | 09/09/22 12:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34150        | 09/10/22 21:13       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34261        | 09/12/22 10:05       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 33845        | 09/06/22 12:59       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 33652        | 09/02/22 13:37       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33584        | 09/03/22 03:07       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33691        | 09/03/22 13:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 33933        | 09/09/22 03:25       | CH      | EET MID |

Client Sample ID: PH02

Lab Sample ID: 890-2874-2

Date Collected: 08/31/22 09:20

Matrix: Solid

Date Received: 09/01/22 09:21

| 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         | 34108        | 09/09/22 12:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34150        | 09/10/22 21:39       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34261        | 09/12/22 10:05       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 33845        | 09/06/22 12:59       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33652        | 09/02/22 13:37       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33584        | 09/03/22 03:29       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 33691        | 09/03/22 13:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 33933        | 09/09/22 03:30       | CH      | EET MID |

Client Sample ID: PH03

Lab Sample ID: 890-2874-3

Date Collected: 08/31/22 09:30

Matrix: Solid

Date Received: 09/01/22 09:21

| 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         | 34108        | 09/09/22 12:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34150        | 09/10/22 22:05       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34261        | 09/12/22 10:05       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 33845        | 09/06/22 12:59       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 33652        | 09/02/22 13:37       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33584        | 09/03/22 03:50       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33691        | 09/03/22 13:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 33933        | 09/09/22 03:35       | CH      | EET MID |

Client Sample ID: PH04

Lab Sample ID: 890-2874-4

Date Collected: 08/31/22 09:40

Matrix: Solid

Date Received: 09/01/22 09:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 34108        | 09/09/22 12:42       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34150        | 09/10/22 22:30       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34261        | 09/12/22 10:05       | AJ      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Client Sample ID: PH04  
Date Collected: 08/31/22 09:40  
Date Received: 09/01/22 09:21

Lab Sample ID: 890-2874-4  
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          |                |              | 33845        | 09/06/22 12:59       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 33652        | 09/02/22 13:37       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33584        | 09/03/22 04:12       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 33691        | 09/03/22 13:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 33933        | 09/09/22 03:49       | CH      | EET MID |

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

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- 2
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- 4
- 5
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- 8
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- 12
- 13
- 14

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

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

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

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

## Method Summary

Client: Ensolum

Job ID: 890-2874-1

Project/Site: PLU 21 BD 104H 123H 124H

SDG: 03E1558048

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H 123H 124H

Job ID: 890-2874-1  
SDG: 03E1558048

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2874-1    | PH01             | Solid  | 08/31/22 09:05 | 09/01/22 09:21 | 2     |
| 890-2874-2    | PH02             | Solid  | 08/31/22 09:20 | 09/01/22 09:21 | 2     |
| 890-2874-3    | PH03             | Solid  | 08/31/22 09:30 | 09/01/22 09:21 | 2     |
| 890-2874-4    | PH04             | Solid  | 08/31/22 09:40 | 09/01/22 09:21 | 2     |

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## Chain of Custody

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



Environment Testing  
Xenco

Work Order No:

www.xenco.com Page 1 of 1

|                                     |  |                                    |  |                    |  |
|-------------------------------------|--|------------------------------------|--|--------------------|--|
| Project Manager: Ben Beill          |  | Bill to: (if different)            |  | Garret Green       |  |
| Company Name: Ensolum               |  | Company Name:                      |  | XTO Energy         |  |
| Address: 3122 National Parks Hwy    |  | Address:                           |  | 3104 E. Green St.  |  |
| City, State ZIP: Carlsbad, NM 88220 |  | City, State ZIP:                   |  | Carlsbad, NM 88220 |  |
| Phone: 909-887-2946                 |  | Email: Garret.Green@ExxonMobil.com |  |                    |  |

|                                          |  |                                                                           |  |            |  |
|------------------------------------------|--|---------------------------------------------------------------------------|--|------------|--|
| Project Name: PLU 21 BD 104H, 123H, 124H |  | Turn Around                                                               |  | Pres. Code |  |
| Project Number: 03E1558048               |  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |  |            |  |
| Project Location: 32.10934, -103.88918   |  | Due Date:                                                                 |  |            |  |
| Sampler's Name: Kase Parker              |  | TAT starts the day received by the lab, if received by 4:30pm             |  |            |  |
| PO #:                                    |  |                                                                           |  |            |  |

|                                 |  |                            |  |                 |  |
|---------------------------------|--|----------------------------|--|-----------------|--|
| SAMPLE RECEIPT                  |  | Temp Blank: Yes No         |  | Wet Ice: Yes No |  |
| Samples Received Intact: Yes No |  | Thermometer ID: 77W-007    |  |                 |  |
| Cooler Custody Seals: Yes No    |  | Correction Factor: -0.2    |  |                 |  |
| Sample Custody Seals: Yes No    |  | Temperature Reading: 1.6   |  |                 |  |
| Total Containers:               |  | Corrected Temperature: 1.4 |  |                 |  |

| Sample Identification                                                            | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters             | Pres. Code | ANALYSIS REQUEST | Preservative Codes                              |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| PH01                                                                             | S      | 8/31/2022    | 9:05         | 2'    |           |           | CHLORIDES (EPA: 300.0) |            |                  | None: NO                                        |  |  |  |  |  |  |  |  |  |  |  |
| PH02                                                                             | S      | 8/31/2022    | 9:20         | 2'    |           |           | TPH (8015)             |            |                  | Cool: Cool                                      |  |  |  |  |  |  |  |  |  |  |  |
| PH03                                                                             | S      | 8/31/2022    | 9:30         | 2'    |           |           | BTEX (8021)            |            |                  | HCL: HC                                         |  |  |  |  |  |  |  |  |  |  |  |
| PH04                                                                             | S      | 8/31/2022    | 9:40         | 2'    |           |           |                        |            |                  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> |  |  |  |  |  |  |  |  |  |  |  |
| <br>890-2874 Chain of Custody                                                    |        |              |              |       |           |           |                        |            |                  |                                                 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  |        |              |              |       |           |           |                        |            |                  |                                                 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  |        |              |              |       |           |           |                        |            |                  |                                                 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  |        |              |              |       |           |           |                        |            |                  |                                                 |  |  |  |  |  |  |  |  |  |  |  |
| Incident ID: nAPP2209736479<br>nAPP2211651017<br>nAPP221151438<br>CC: 1668401001 |        |              |              |       |           |           |                        |            |                  |                                                 |  |  |  |  |  |  |  |  |  |  |  |

|                                              |  |                                                                                                                    |  |
|----------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
| 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              |  |

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| 1                            |                          | 9-1-22 9:21 |                              |                          |           |
| 3                            |                          | 4           |                              |                          |           |
| 5                            |                          | 6           |                              |                          |           |

Revised Date: 08/25/2020 Rev 2020.2

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2874-1

SDG Number: 03E1558048

Login Number: 2874

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2874-1

SDG Number: 03E1558048

Login Number: 2874

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 09/02/22 10:54 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2881-1

Laboratory Sample Delivery Group: 03E1558048

Client Project/Site: PLU 21 BD 104H,123H,124H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

9/12/2022 9:20:24 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Laboratory Job ID: 890-2881-1  
SDG: 03E1558048

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## Definitions/Glossary

Client: Ensolum

Job ID: 890-2881-1

Project/Site: PLU 21 BD 104H,123H,124H

SDG: 03E1558048

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



**Case Narrative**

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

**Job ID: 890-2881-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2881-1****Receipt**

The samples were received on 9/2/2022 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-34162/1-A), (LCSD 880-34162/2-A) and (890-2881-A-1-H 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-34014/2-A) and (LCSD 880-34014/3-A). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

Client Sample ID: FS01

Lab Sample ID: 890-2881-1

Date Collected: 09/01/22 12:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:46 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:46 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 20:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 20:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 20:27 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 09/08/22 14:10 | 09/08/22 20:27 | 1       |
| o-Terphenyl    | 112       |           | 70 - 130 | 09/08/22 14:10 | 09/08/22 20:27 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 219    |           | 5.02 | mg/Kg |   |          | 09/09/22 12:34 | 1       |

Client Sample ID: FS02

Lab Sample ID: 890-2881-2

Date Collected: 09/01/22 12:35

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 20:06 | 1       |

Eurofins Carlsbad



## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS02

## Lab Sample ID: 890-2881-2

Date Collected: 09/01/22 12:35

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 92        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 20:06 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 21:31 | 1       |
| o-Terphenyl                          | 97        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 21:31 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 328    |           | 4.97 | mg/Kg |   |          | 09/09/22 13:02 | 1       |

## Client Sample ID: FS03

## Lab Sample ID: 890-2881-3

Date Collected: 09/01/22 12:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 20:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 20:27 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS03

Lab Sample ID: 890-2881-3

Date Collected: 09/01/22 12:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 21:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 21:53 | 1       |
| o-Terphenyl                          | 97        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 21:53 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 103    |           | 5.00 | mg/Kg |   |          | 09/09/22 13:11 | 1       |

## Client Sample ID: FS04

Lab Sample ID: 890-2881-4

Date Collected: 09/01/22 12:45

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 20:47 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 55.9   |           | 49.8 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 55.9      |           | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:14 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 123       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 22:14 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 22:14 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS04

Lab Sample ID: 890-2881-4

Date Collected: 09/01/22 12:45

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 333    |           | 5.02 | mg/Kg |   |          | 09/09/22 13:20 | 1       |

## Client Sample ID: FS05

Lab Sample ID: 890-2881-5

Date Collected: 09/01/22 12:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 21:08 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:36 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:36 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:36 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 22:36 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 22:36 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 329    |           | 4.95 | mg/Kg |   |          | 09/09/22 13:29 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

Client Sample ID: FS08

Lab Sample ID: 890-2881-6

Date Collected: 09/01/22 13:05

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 21:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 21:28 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 22:57 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109       |           | 70 - 130 | 09/08/22 14:10 | 09/08/22 22:57 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 09/08/22 14:10 | 09/08/22 22:57 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 354    |           | 4.97 | mg/Kg |   |          | 09/09/22 13:57 | 1       |

Client Sample ID: FS09

Lab Sample ID: 890-2881-7

Date Collected: 09/01/22 13:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 21:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122       |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 21:49 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

Client Sample ID: FS09

Lab Sample ID: 890-2881-7

Date Collected: 09/01/22 13:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 84        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 21:49 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 23:18 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 23:18 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 56.7   |           | 4.98 | mg/Kg |   |          | 09/09/22 14:06 | 1       |

Client Sample ID: FS10

Lab Sample ID: 890-2881-8

Date Collected: 09/01/22 13:15

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 22:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 09/11/22 14:51 | 09/11/22 22:09 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS10

Lab Sample ID: 890-2881-8

Date Collected: 09/01/22 13:15

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/08/22 23:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 123       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 23:40 | 1       |
| o-Terphenyl                          | 112       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/08/22 23:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 92.3   |           | 4.98 | mg/Kg |   |          | 09/09/22 14:15 | 1       |

## Client Sample ID: FS11

Lab Sample ID: 890-2881-9

Date Collected: 09/01/22 13:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 22:30 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 122       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 00:02 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 00:02 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS11

Lab Sample ID: 890-2881-9

Date Collected: 09/01/22 13:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 181    |           | 4.98 | mg/Kg |   |          | 09/09/22 14:25 | 1       |

## Client Sample ID: FS12

Lab Sample ID: 890-2881-10

Date Collected: 09/01/22 13:25

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |       |   | 09/11/22 14:51 | 09/11/22 22:50 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 00:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 99        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 00:23 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 00:23 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 238    |           | 5.00 | mg/Kg |   |          | 09/09/22 14:34 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|-----------------------------------|------------------------|------------------------------------------------|----------|--|--|--|--|
| Lab Sample ID                     | Client Sample ID       | BFB1                                           | DFBZ1    |  |  |  |  |
|                                   |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 890-2881-1                        | FS01                   | 97                                             | 80       |  |  |  |  |
| 890-2881-1 MS                     | FS01                   | 118                                            | 102      |  |  |  |  |
| 890-2881-1 MSD                    | FS01                   | 138 S1+                                        | 104      |  |  |  |  |
| 890-2881-2                        | FS02                   | 110                                            | 92       |  |  |  |  |
| 890-2881-3                        | FS03                   | 107                                            | 86       |  |  |  |  |
| 890-2881-4                        | FS04                   | 109                                            | 91       |  |  |  |  |
| 890-2881-5                        | FS05                   | 112                                            | 92       |  |  |  |  |
| 890-2881-6                        | FS08                   | 106                                            | 87       |  |  |  |  |
| 890-2881-7                        | FS09                   | 122                                            | 84       |  |  |  |  |
| 890-2881-8                        | FS10                   | 113                                            | 93       |  |  |  |  |
| 890-2881-9                        | FS11                   | 108                                            | 89       |  |  |  |  |
| 890-2881-10                       | FS12                   | 116                                            | 92       |  |  |  |  |
| LCS 880-34162/1-A                 | Lab Control Sample     | 144 S1+                                        | 104      |  |  |  |  |
| LCSD 880-34162/2-A                | Lab Control Sample Dup | 141 S1+                                        | 106      |  |  |  |  |
| MB 880-34162/5-A                  | Method Blank           | 98                                             | 85       |  |  |  |  |
| Surrogate Legend                  |                        |                                                |          |  |  |  |  |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |          |  |  |  |  |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |          |  |  |  |  |

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

Matrix: Solid

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |  |  |
|----------------------|------------------------|------------------------------------------------|----------|--|--|--|--|--|--|
| Lab Sample ID        | Client Sample ID       | 1CO1                                           | OTPH1    |  |  |  |  |  |  |
|                      |                        | (70-130)                                       | (70-130) |  |  |  |  |  |  |
| 890-2881-1           | FS01                   | 120                                            | 112      |  |  |  |  |  |  |
| 890-2881-1 MS        | FS01                   | 92                                             | 83       |  |  |  |  |  |  |
| 890-2881-1 MSD       | FS01                   | 97                                             | 85       |  |  |  |  |  |  |
| 890-2881-2           | FS02                   | 105                                            | 97       |  |  |  |  |  |  |
| 890-2881-3           | FS03                   | 103                                            | 97       |  |  |  |  |  |  |
| 890-2881-4           | FS04                   | 123                                            | 113      |  |  |  |  |  |  |
| 890-2881-5           | FS05                   | 102                                            | 96       |  |  |  |  |  |  |
| 890-2881-6           | FS08                   | 109                                            | 103      |  |  |  |  |  |  |
| 890-2881-7           | FS09                   | 103                                            | 98       |  |  |  |  |  |  |
| 890-2881-8           | FS10                   | 123                                            | 112      |  |  |  |  |  |  |
| 890-2881-9           | FS11                   | 122                                            | 113      |  |  |  |  |  |  |
| 890-2881-10          | FS12                   | 99                                             | 93       |  |  |  |  |  |  |
| LCS 880-34014/2-A    | Lab Control Sample     | 147 S1+                                        | 131 S1+  |  |  |  |  |  |  |
| LCSD 880-34014/3-A   | Lab Control Sample Dup | 152 S1+                                        | 139 S1+  |  |  |  |  |  |  |
| MB 880-34014/1-A     | Method Blank           | 107                                            | 103      |  |  |  |  |  |  |
| Surrogate Legend     |                        |                                                |          |  |  |  |  |  |  |
| 1CO = 1-Chlorooctane |                        |                                                |          |  |  |  |  |  |  |
| OTPH = o-Terphenyl   |                        |                                                |          |  |  |  |  |  |  |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-34162/5-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85           |              | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:24 | 1       |

Lab Sample ID: LCS 880-34162/1-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08208    |               | mg/Kg |   | 82   | 70 - 130    |
| Toluene             | 0.100       | 0.08061    |               | mg/Kg |   | 81   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09744    |               | mg/Kg |   | 97   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2095     |               | mg/Kg |   | 105  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1203     |               | mg/Kg |   | 120  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 144           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34162/2-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.09196     |                | mg/Kg |   | 92   | 70 - 130    | 11  | 35    |
| Toluene             | 0.100       | 0.08758     |                | mg/Kg |   | 88   | 70 - 130    | 8   | 35    |
| Ethylbenzene        | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130    | 8   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2270      |                | mg/Kg |   | 114  | 70 - 130    | 8   | 35    |
| o-Xylene            | 0.100       | 0.1293      |                | mg/Kg |   | 129  | 70 - 130    | 7   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 141            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106            |                | 70 - 130 |

Lab Sample ID: 890-2881-1 MS

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 34162

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199      | U                | 0.101       | 0.08380   |              | mg/Kg |   | 83   | 70 - 130    |
| Toluene | <0.00199      | U                | 0.101       | 0.08110   |              | mg/Kg |   | 80   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

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

Lab Sample ID: 890-2881-1 MS

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00199      | U                | 0.101       | 0.08569   |              | mg/Kg |   | 85   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.202       | 0.1788    |              | mg/Kg |   | 89   | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.101       | 0.1017    |              | mg/Kg |   | 101  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 118          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 |

Lab Sample ID: 890-2881-1 MSD

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U                | 0.100       | 0.08733    |               | mg/Kg |   | 87   | 70 - 130    | 4   | 35        |
| Toluene             | <0.00199      | U                | 0.100       | 0.08293    |               | mg/Kg |   | 83   | 70 - 130    | 2   | 35        |
| Ethylbenzene        | <0.00199      | U                | 0.100       | 0.1007     |               | mg/Kg |   | 100  | 70 - 130    | 16  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.201       | 0.2056     |               | mg/Kg |   | 102  | 70 - 130    | 14  | 35        |
| o-Xylene            | <0.00199      | U                | 0.100       | 0.1165     |               | mg/Kg |   | 116  | 70 - 130    | 14  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 138           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

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

Lab Sample ID: MB 880-34014/1-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34014

| 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 |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107          |              | 70 - 130 | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| o-Terphenyl    | 103          |              | 70 - 130 | 09/08/22 14:10 | 09/08/22 19:23 | 1       |

Lab Sample ID: LCS 880-34014/2-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1026       |               | mg/Kg |   | 103  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 992.0      |               | mg/Kg |   | 99   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

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

Lab Sample ID: LCS 880-34014/2-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34014

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 147       | S1+       | 70 - 130 |
| o-Terphenyl    | 131       | S1+       | 70 - 130 |

Lab Sample ID: LCSD 880-34014/3-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1032        |                | mg/Kg |   | 103  | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1050        |                | mg/Kg |   | 105  | 70 - 130    | 6   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 152       | S1+       | 70 - 130 |
| o-Terphenyl    | 139       | S1+       | 70 - 130 |

Lab Sample ID: 890-2881-1 MS

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 829.5     |              | mg/Kg |   | 83   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 999         | 942.6     |              | mg/Kg |   | 92   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 83        |           | 70 - 130 |

Lab Sample ID: 890-2881-1 MSD

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 996         | 841.1      |               | mg/Kg |   | 84   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 996         | 978.1      |               | mg/Kg |   | 96   | 70 - 130    | 4   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 97        |           | 70 - 130 |
| o-Terphenyl    | 85        |           | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33840/1-A

Matrix: Solid

Analysis Batch: 34020

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 |   |          | 09/09/22 12:06 | 1       |

Lab Sample ID: LCS 880-33840/2-A

Matrix: Solid

Analysis Batch: 34020

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            | 240.4         |                  | mg/Kg |   | 96   | 90 - 110       |

Lab Sample ID: LCSD 880-33840/3-A

Matrix: Solid

Analysis Batch: 34020

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            | 247.1          |                   | mg/Kg |   | 99   | 90 - 110       | 3   | 20           |

Lab Sample ID: 890-2881-1 MS

Matrix: Solid

Analysis Batch: 34020

Client Sample ID: FS01

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 | 219              |                     | 251            | 451.5        |                 | mg/Kg |   | 92   | 90 - 110       |

Lab Sample ID: 890-2881-1 MSD

Matrix: Solid

Analysis Batch: 34020

Client Sample ID: FS01

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 | 219              |                     | 251            | 451.4         |                  | mg/Kg |   | 92   | 90 - 110       | 0   | 20           |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## GC VOA

## Analysis Batch: 34160

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2881-1         | FS01                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-2         | FS02                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-3         | FS03                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-4         | FS04                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-5         | FS05                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-6         | FS08                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-7         | FS09                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-8         | FS10                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-9         | FS11                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-10        | FS12                   | Total/NA  | Solid  | 8021B  | 34162      |
| MB 880-34162/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34162      |
| LCS 880-34162/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34162      |
| LCSD 880-34162/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-1 MS      | FS01                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-1 MSD     | FS01                   | Total/NA  | Solid  | 8021B  | 34162      |

## Prep Batch: 34162

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2881-1         | FS01                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-2         | FS02                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-3         | FS03                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-4         | FS04                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-5         | FS05                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-6         | FS08                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-7         | FS09                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-8         | FS10                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-9         | FS11                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-10        | FS12                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34162/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34162/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34162/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2881-1 MS      | FS01                   | Total/NA  | Solid  | 5035   |            |
| 890-2881-1 MSD     | FS01                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2881-1    | FS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-2    | FS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-3    | FS03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-4    | FS04             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-5    | FS05             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-6    | FS08             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-7    | FS09             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-8    | FS10             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-9    | FS11             | Total/NA  | Solid  | Total BTEX |            |
| 890-2881-10   | FS12             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## GC Semi VOA

## Analysis Batch: 33968

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2881-1         | FS01                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-2         | FS02                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-3         | FS03                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-4         | FS04                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-5         | FS05                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-6         | FS08                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-7         | FS09                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-8         | FS10                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-9         | FS11                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-10        | FS12                   | Total/NA  | Solid  | 8015B NM | 34014      |
| MB 880-34014/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 34014      |
| LCS 880-34014/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 34014      |
| LCSD 880-34014/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-1 MS      | FS01                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-1 MSD     | FS01                   | Total/NA  | Solid  | 8015B NM | 34014      |

## Prep Batch: 34014

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2881-1         | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-2         | FS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-3         | FS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-4         | FS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-5         | FS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-6         | FS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-7         | FS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-8         | FS10                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-9         | FS11                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-10        | FS12                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-34014/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-34014/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-34014/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-1 MS      | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-1 MSD     | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 34075

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2881-1    | FS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-2    | FS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-3    | FS03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-4    | FS04             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-5    | FS05             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-6    | FS08             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-7    | FS09             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-8    | FS10             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-9    | FS11             | Total/NA  | Solid  | 8015 NM |            |
| 890-2881-10   | FS12             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## HPLC/IC

## Leach Batch: 33840

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2881-1         | FS01                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-2         | FS02                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-3         | FS03                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-4         | FS04                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-5         | FS05                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-6         | FS08                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-7         | FS09                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-8         | FS10                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-9         | FS11                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-10        | FS12                   | Soluble   | Solid  | DI Leach |            |
| MB 880-33840/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-33840/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-33840/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2881-1 MS      | FS01                   | Soluble   | Solid  | DI Leach |            |
| 890-2881-1 MSD     | FS01                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 34020

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2881-1         | FS01                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-2         | FS02                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-3         | FS03                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-4         | FS04                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-5         | FS05                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-6         | FS08                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-7         | FS09                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-8         | FS10                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-9         | FS11                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-10        | FS12                   | Soluble   | Solid  | 300.0  | 33840      |
| MB 880-33840/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 33840      |
| LCS 880-33840/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 33840      |
| LCSD 880-33840/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-1 MS      | FS01                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2881-1 MSD     | FS01                   | Soluble   | Solid  | 300.0  | 33840      |

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS01

## Lab Sample ID: 890-2881-1

Date Collected: 09/01/22 12:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 19:46       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 20:27       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 12:34       | CH      | EET MID |

## Client Sample ID: FS02

## Lab Sample ID: 890-2881-2

Date Collected: 09/01/22 12:35

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 20:06       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 21:31       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 13:02       | CH      | EET MID |

## Client Sample ID: FS03

## Lab Sample ID: 890-2881-3

Date Collected: 09/01/22 12:40

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 20:27       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 21:53       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 13:11       | CH      | EET MID |

## Client Sample ID: FS04

## Lab Sample ID: 890-2881-4

Date Collected: 09/01/22 12:45

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 20:47       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS04

## Lab Sample ID: 890-2881-4

Date Collected: 09/01/22 12:45

Matrix: Solid

Date Received: 09/02/22 14:56

| 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          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 22:14       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 13:20       | CH      | EET MID |

## Client Sample ID: FS05

## Lab Sample ID: 890-2881-5

Date Collected: 09/01/22 12:50

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 21:08       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 22:36       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 13:29       | CH      | EET MID |

## Client Sample ID: FS08

## Lab Sample ID: 890-2881-6

Date Collected: 09/01/22 13:05

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 21:28       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 22:57       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 13:57       | CH      | EET MID |

## Client Sample ID: FS09

## Lab Sample ID: 890-2881-7

Date Collected: 09/01/22 13:10

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 21:49       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 23:18       | SM      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

## Client Sample ID: FS09

## Lab Sample ID: 890-2881-7

Date Collected: 09/01/22 13:10

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 14:06       | CH      | EET MID |

## Client Sample ID: FS10

## Lab Sample ID: 890-2881-8

Date Collected: 09/01/22 13:15

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 22:09       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/08/22 23:40       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 14:15       | CH      | EET MID |

## Client Sample ID: FS11

## Lab Sample ID: 890-2881-9

Date Collected: 09/01/22 13:20

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 22:30       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 00:02       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 14:25       | CH      | EET MID |

## Client Sample ID: FS12

## Lab Sample ID: 890-2881-10

Date Collected: 09/01/22 13:25

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/11/22 22:50       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34244        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34075        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 00:23       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 14:34       | CH      | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

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

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H,123H,124H

Job ID: 890-2881-1  
SDG: 03E1558048

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

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

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

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

## Method Summary

Client: Ensolum

Job ID: 890-2881-1

Project/Site: PLU 21 BD 104H,123H,124H

SDG: 03E1558048

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

## Sample Summary

Client: Ensolum

Job ID: 890-2881-1

Project/Site: PLU 21 BD 104H,123H,124H

SDG: 03E1558048

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2881-1    | FS01             | Solid  | 09/01/22 12:30 | 09/02/22 14:56 | 2'    |
| 890-2881-2    | FS02             | Solid  | 09/01/22 12:35 | 09/02/22 14:56 | 2'    |
| 890-2881-3    | FS03             | Solid  | 09/01/22 12:40 | 09/02/22 14:56 | 2'    |
| 890-2881-4    | FS04             | Solid  | 09/01/22 12:45 | 09/02/22 14:56 | 2'    |
| 890-2881-5    | FS05             | Solid  | 09/01/22 12:50 | 09/02/22 14:56 | 2'    |
| 890-2881-6    | FS08             | Solid  | 09/01/22 13:05 | 09/02/22 14:56 | 2'    |
| 890-2881-7    | FS09             | Solid  | 09/01/22 13:10 | 09/02/22 14:56 | 2'    |
| 890-2881-8    | FS10             | Solid  | 09/01/22 13:15 | 09/02/22 14:56 | 2'    |
| 890-2881-9    | FS11             | Solid  | 09/01/22 13:20 | 09/02/22 14:56 | 2'    |
| 890-2881-10   | FS12             | Solid  | 09/01/22 13:25 | 09/02/22 14:56 | 2'    |



Environment Testing  
Xenco

Chain of Custody

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

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

www.xenco.com Page \_\_\_\_\_ of \_\_\_\_\_

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

|                     |                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                     |
| Program: UST/PST    | <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund   |
| State of Project:   |                                                                                                                                     |
| Reporting: Level II | <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV |
| Deliverables: EDD   | <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                      |

|                           |                                                                     |                                                               |                                                                           |            |           |                  |   |                                                                   |
|---------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|------------|-----------|------------------|---|-------------------------------------------------------------------|
| Project Name:             | PLU 21 BD 104H, 123H, 124H                                          | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |           | ANALYSIS REQUEST |   | Preservative Codes                                                |
| Project Number:           | 03E1558048                                                          |                                                               |                                                                           |            |           |                  |   | None: NO DI Water: H <sub>2</sub> O                               |
| Project Location:         | 32.10934, -103.88918                                                | Due Date:                                                     |                                                                           |            |           |                  |   | Cool: Cool MeOH: Me                                               |
| Sampler's Name:           | Kase Parker                                                         | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |            |           |                  |   | HCL: HC HNO <sub>3</sub> : HN                                     |
| PO #:                     |                                                                     | Wet Ice:                                                      | <input checked="" type="checkbox"/> No                                    |            |           |                  |   | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na          |
| SAMPLE RECEIPT            | Temp Blank: <input checked="" type="checkbox"/> No                  | Thermometer ID:                                               |                                                                           |            |           |                  |   | H <sub>3</sub> PO <sub>4</sub> : HP                               |
| Samples Received In tact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor:                                            |                                                                           |            |           |                  |   | NaHSO <sub>4</sub> : NABIS                                        |
| Cooler Custody Seals:     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading:                                          |                                                                           |            |           |                  |   | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub> |
| Sample Custody Seals:     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Corrected Temperature:                                        |                                                                           |            |           |                  |   | Zn Acetate+NaOH: Zn                                               |
| Total Containers:         |                                                                     |                                                               |                                                                           |            |           |                  |   | NaOH+Ascorbic Acid: SABC                                          |
| Sample Identification     | Matrix                                                              | Date Sampled                                                  | Time Sampled                                                              | Depth      | Grab/Comp | # of Cont        |   | Sample Comments                                                   |
| FS01                      | S                                                                   | 9/1/2022                                                      | 12:30                                                                     | 2'         |           | X                | X | Incident ID:                                                      |
| FS02                      | S                                                                   | 9/1/2022                                                      | 12:35                                                                     | 2'         |           | X                | X | nAPP2209/36479                                                    |
| FS03                      | S                                                                   | 9/1/2022                                                      | 12:40                                                                     | 2'         |           | X                | X | nAPP2211651017                                                    |
| FS04                      | S                                                                   | 9/1/2022                                                      | 12:45                                                                     | 2'         |           | X                | X | nAPP221151438                                                     |
| FS05                      | S                                                                   | 9/1/2022                                                      | 12:50                                                                     | 2'         |           | X                | X | CC:                                                               |
| FS08                      | S                                                                   | 9/1/2022                                                      | 13:05                                                                     | 2'         |           | X                | X | 1666401001                                                        |
| FS09                      | S                                                                   | 9/1/2022                                                      | 13:10                                                                     | 2'         |           | X                | X |                                                                   |
| FS10                      | S                                                                   | 9/1/2022                                                      | 13:15                                                                     | 2'         |           | X                | X |                                                                   |
| FS11                      | S                                                                   | 9/1/2022                                                      | 13:20                                                                     | 2'         |           | X                | X |                                                                   |
| FS12                      | S                                                                   | 9/1/2022                                                      | 13:25                                                                     | 2'         |           | X                | X |                                                                   |



890-2881 Chain of Custody

|                                              |               |                         |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |  |  |  |  |
|----------------------------------------------|---------------|-------------------------|----------|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|----|---|---|----|--|--|--|--|
| Total 200.7 / 6010                           | 200.8 / 6020: | 8RCRA 13PPM             | Texas 11 | Al | Sb | As | Ba | Be | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Mo | Ni | K | Se | Ag | SiO <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 | B | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U |    |    |                  |    |    |    |    |   |   |    |  |  |  |  |

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

|                           |                          |                           |                              |                          |           |
|---------------------------|--------------------------|---------------------------|------------------------------|--------------------------|-----------|
| Refinanced by (Signature) | Received by: (Signature) | Date/Time                 | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i>        | <i>[Signature]</i>       | 9/20/22 1456 <sup>2</sup> |                              |                          |           |
|                           |                          |                           |                              |                          |           |
|                           |                          |                           |                              |                          |           |
|                           |                          |                           |                              |                          |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2881-1

SDG Number: 03E1558048

Login Number: 2881

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2881-1

SDG Number: 03E1558048

Login Number: 2881

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 09/07/22 11:42 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2882-1

Laboratory Sample Delivery Group: 03E1558048  
Client Project/Site: PLU 21 BD 104H, 123H, 124H  
Revision: 1

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
9/14/2022 5:58:55 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

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results through



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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Laboratory Job ID: 890-2882-1  
SDG: 03E1558048

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

### Job ID: 890-2882-1

### Laboratory: Eurofins Carlsbad

#### Narrative

#### Job Narrative 890-2882-1

#### REVISION

The report being provided is a revision of the original report sent on 9/14/2022. The report (revision 1) is being revised due to Pe client email, requesting sample depths to be corrected.

Report revision history

#### Receipt

The samples were received on 9/2/2022 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-34162/1-A), (LCSD 880-34162/2-A) and (890-2881-A-1-H 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 for preparation batch 880-34272 and analytical batch 880-34340 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-34272/2-A). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34014/2-A) and (LCSD 880-34014/3-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

Client Sample ID: SW01

Lab Sample ID: 890-2882-1

Date Collected: 09/02/22 11:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 09/11/22 14:51 | 09/12/22 00:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 09/11/22 14:51 | 09/12/22 00:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:06 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 119       |           | 70 - 130 | 09/08/22 14:10 | 09/09/22 01:06 | 1       |
| o-Terphenyl    | 110       |           | 70 - 130 | 09/08/22 14:10 | 09/09/22 01:06 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 390    |           | 5.02 | mg/Kg |   |          | 09/09/22 14:43 | 1       |

Client Sample ID: SW02

Lab Sample ID: 890-2882-2

Date Collected: 09/02/22 11:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/11/22 14:51 | 09/12/22 00:33 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 09/11/22 14:51 | 09/12/22 00:33 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

Client Sample ID: SW02

Lab Sample ID: 890-2882-2

Date Collected: 09/02/22 11:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 79        |           | 70 - 130 | 09/11/22 14:51 | 09/12/22 00:33 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:28 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 114       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 01:28 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 01:28 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 533    |           | 5.01 | mg/Kg |   |          | 09/09/22 15:11 | 1       |

Client Sample ID: SW03

Lab Sample ID: 890-2882-3

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 3'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 04:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 82        |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 04:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

## Method: 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 |   |          | 09/09/22 10:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

## Client Sample ID: SW03

## Lab Sample ID: 890-2882-3

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 3'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 01:49 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 101       |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 01:49 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 01:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 210    |           | 4.98 | mg/Kg |   |          | 09/09/22 15:20 | 1       |

## Client Sample ID: SW04

## Lab Sample ID: 890-2882-4

Date Collected: 09/02/22 11:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 0 - 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 125       |           | 70 - 130 |       |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |       |   | 09/12/22 10:28 | 09/14/22 04:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/12/22 09:55 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 10:25 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 02:11 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 02:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 14:10 | 09/09/22 02:11 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 99        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 02:11 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |       |   | 09/08/22 14:10 | 09/09/22 02:11 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

**Client Sample ID: SW04**  
**Date Collected: 09/02/22 11:50**  
**Date Received: 09/02/22 14:56**  
**Sample Depth: 0 - 2'**

**Lab Sample ID: 890-2882-4**  
**Matrix: Solid**

|                                                      |        |           |      |       |   |          |                |         |  |
|------------------------------------------------------|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
| Analyte                                              | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride                                             | 119    |           | 5.03 | mg/Kg |   |          | 09/09/22 18:19 | 1       |  |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

## 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) |
|-----------------------|------------------------|------------------|-------------------|
| 880-18879-A-101-F MS  | Matrix Spike           | 123              | 105               |
| 880-18879-A-101-G MSD | Matrix Spike Duplicate | 127              | 105               |
| 890-2881-A-1-G MS     | Matrix Spike           | 118              | 102               |
| 890-2881-A-1-H MSD    | Matrix Spike Duplicate | 138 S1+          | 104               |
| 890-2882-1            | SW01                   | 109              | 86                |
| 890-2882-2            | SW02                   | 110              | 79                |
| 890-2882-3            | SW03                   | 112              | 82                |
| 890-2882-4            | SW04                   | 125              | 89                |
| LCS 880-34162/1-A     | Lab Control Sample     | 144 S1+          | 104               |
| LCS 880-34272/1-A     | Lab Control Sample     | 127              | 98                |
| LCSD 880-34162/2-A    | Lab Control Sample Dup | 141 S1+          | 106               |
| LCSD 880-34272/2-A    | Lab Control Sample Dup | 67 S1-           | 99                |
| MB 880-34162/5-A      | Method Blank           | 98               | 85                |
| MB 880-34272/5-A      | Method Blank           | 98               | 85                |
| MB 880-34351/5-A      | Method Blank           | 99               | 90                |

## 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) |
|--------------------|------------------------|------------------|-------------------|
| 890-2881-A-1-E MS  | Matrix Spike           | 92               | 83                |
| 890-2881-A-1-F MSD | Matrix Spike Duplicate | 97               | 85                |
| 890-2882-1         | SW01                   | 119              | 110               |
| 890-2882-2         | SW02                   | 114              | 105               |
| 890-2882-3         | SW03                   | 101              | 96                |
| 890-2882-4         | SW04                   | 99               | 93                |
| LCS 880-34014/2-A  | Lab Control Sample     | 147 S1+          | 131 S1+           |
| LCSD 880-34014/3-A | Lab Control Sample Dup | 152 S1+          | 139 S1+           |
| MB 880-34014/1-A   | Method Blank           | 107              | 103               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-34162/5-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/11/22 14:51 | 09/11/22 19:24 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85           |              | 70 - 130 | 09/11/22 14:51 | 09/11/22 19:24 | 1       |

Lab Sample ID: LCS 880-34162/1-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08208    |               | mg/Kg |   | 82   | 70 - 130    |
| Toluene             | 0.100       | 0.08061    |               | mg/Kg |   | 81   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09744    |               | mg/Kg |   | 97   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2095     |               | mg/Kg |   | 105  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1203     |               | mg/Kg |   | 120  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 144           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34162/2-A

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09196     |                | mg/Kg |   | 92   | 70 - 130    | 11  | 35        |
| Toluene             | 0.100       | 0.08758     |                | mg/Kg |   | 88   | 70 - 130    | 8   | 35        |
| Ethylbenzene        | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130    | 8   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2270      |                | mg/Kg |   | 114  | 70 - 130    | 8   | 35        |
| o-Xylene            | 0.100       | 0.1293      |                | mg/Kg |   | 129  | 70 - 130    | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 141            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106            |                | 70 - 130 |

Lab Sample ID: 890-2881-A-1-G MS

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34162

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199      | U                | 0.101       | 0.08380   |              | mg/Kg |   | 83   | 70 - 130    |
| Toluene | <0.00199      | U                | 0.101       | 0.08110   |              | mg/Kg |   | 80   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: 890-2881-A-1-G MS

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00199      | U                | 0.101       | 0.08569   |              | mg/Kg |   | 85   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.202       | 0.1788    |              | mg/Kg |   | 89   | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.101       | 0.1017    |              | mg/Kg |   | 101  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 118          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 |

Lab Sample ID: 890-2881-A-1-H MSD

Matrix: Solid

Analysis Batch: 34160

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34162

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00199      | U                | 0.100       | 0.08733    |               | mg/Kg |   | 87   | 70 - 130    | 4   | 35    |
| Toluene             | <0.00199      | U                | 0.100       | 0.08293    |               | mg/Kg |   | 83   | 70 - 130    | 2   | 35    |
| Ethylbenzene        | <0.00199      | U                | 0.100       | 0.1007     |               | mg/Kg |   | 100  | 70 - 130    | 16  | 35    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.201       | 0.2056     |               | mg/Kg |   | 102  | 70 - 130    | 14  | 35    |
| o-Xylene            | <0.00199      | U                | 0.100       | 0.1165     |               | mg/Kg |   | 116  | 70 - 130    | 14  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 138           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: MB 880-34272/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85           |              | 70 - 130 | 09/12/22 10:28 | 09/13/22 21:47 | 1       |

Lab Sample ID: LCS 880-34272/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08116    |               | mg/Kg |   | 81   | 70 - 130    |
| Toluene             | 0.100       | 0.08046    |               | mg/Kg |   | 80   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09042    |               | mg/Kg |   | 90   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1950     |               | mg/Kg |   | 97   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: LCS 880-34272/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34272

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100       | 0.1131     |               | mg/Kg |   | 113  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 127           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98            |               | 70 - 130 |

Lab Sample ID: LCSD 880-34272/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.07578     |                | mg/Kg |   | 76   | 70 - 130    | 7   | 35    |
| Toluene             | 0.100       | 0.08052     |                | mg/Kg |   | 81   | 70 - 130    | 0   | 35    |
| Ethylbenzene        | 0.100       | 0.09275     |                | mg/Kg |   | 93   | 70 - 130    | 3   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2014      |                | mg/Kg |   | 101  | 70 - 130    | 3   | 35    |
| o-Xylene            | 0.100       | 0.1170      |                | mg/Kg |   | 117  | 70 - 130    | 3   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 67             | S1-            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: 880-18879-A-101-F MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00201      | U F1             | 0.101       | 0.05794   | F1           | mg/Kg |   | 57   | 70 - 130    |
| Toluene             | <0.00201      | U F1             | 0.101       | 0.05604   | F1           | mg/Kg |   | 55   | 70 - 130    |
| Ethylbenzene        | <0.00201      | U F1             | 0.101       | 0.06113   | F1           | mg/Kg |   | 61   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U F1             | 0.202       | 0.1247    | F1           | mg/Kg |   | 62   | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.101       | 0.07156   |              | mg/Kg |   | 71   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 123          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 |

Lab Sample ID: 880-18879-A-101-G MSD

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00201      | U F1             | 0.0994      | 0.05214    | F1            | mg/Kg |   | 52   | 70 - 130    | 11  | 35    |
| Toluene             | <0.00201      | U F1             | 0.0994      | 0.05106    | F1            | mg/Kg |   | 51   | 70 - 130    | 9   | 35    |
| Ethylbenzene        | <0.00201      | U F1             | 0.0994      | 0.05988    | F1            | mg/Kg |   | 60   | 70 - 130    | 2   | 35    |
| m-Xylene & p-Xylene | <0.00402      | U F1             | 0.199       | 0.1209     | F1            | mg/Kg |   | 61   | 70 - 130    | 3   | 35    |
| o-Xylene            | <0.00201      | U                | 0.0994      | 0.06976    |               | mg/Kg |   | 70   | 70 - 130    | 3   | 35    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: 880-18879-A-101-G MSD

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34272

| Surrogate                   | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 127              |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105              |                  | 70 - 130 |

Lab Sample ID: MB 880-34351/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99              |                 | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90              |                 | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:13 | 1       |

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

Lab Sample ID: MB 880-34014/1-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0        | U               | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0        | U               | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U               | 50.0 | mg/Kg |   | 09/08/22 14:10 | 09/08/22 19:23 | 1       |

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107             |                 | 70 - 130 | 09/08/22 14:10 | 09/08/22 19:23 | 1       |
| o-Terphenyl    | 103             |                 | 70 - 130 | 09/08/22 14:10 | 09/08/22 19:23 | 1       |

Lab Sample ID: LCS 880-34014/2-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1026          |                  | mg/Kg |   | 103  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000           | 992.0         |                  | mg/Kg |   | 99   | 70 - 130       |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 147              | S1+              | 70 - 130 |
| o-Terphenyl    | 131              | S1+              | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: LCSD 880-34014/3-A

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Spike Added | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1032           |                | mg/Kg |   | 103  | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1050           |                | mg/Kg |   | 105  | 70 - 130    | 6   | 20        |
| Surrogate                            | %Recovery   | LCSD Qualifier | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 152         | S1+            | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 139         | S1+            | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 890-2881-A-1-E MS

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34014

| 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 | <50.0         | U                | 999         | 829.5     |              | mg/Kg |   | 83   | 70 - 130    |     |           |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 999         | 942.6     |              | mg/Kg |   | 92   | 70 - 130    |     |           |
| Surrogate                            | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |             |     |           |
| 1-Chlorooctane                       | 92            |                  | 70 - 130    |           |              |       |   |      |             |     |           |
| o-Terphenyl                          | 83            |                  | 70 - 130    |           |              |       |   |      |             |     |           |

Lab Sample ID: 890-2881-A-1-F MSD

Matrix: Solid

Analysis Batch: 33968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34014

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 996         | 841.1      |               | mg/Kg |   | 84   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 996         | 978.1      |               | mg/Kg |   | 96   | 70 - 130    | 4   | 20        |
| Surrogate                            | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 97            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 85            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33840/1-A

Matrix: Solid

Analysis Batch: 34020

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 |   |          | 09/09/22 12:06 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

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

Lab Sample ID: LCS 880-33840/2-A

Matrix: Solid

Analysis Batch: 34020

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 240.4      |               | mg/Kg |   | 96   | 90 - 110    |

Lab Sample ID: LCSD 880-33840/3-A

Matrix: Solid

Analysis Batch: 34020

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         | 247.1       |                | mg/Kg |   | 99   | 90 - 110    | 3   | 20        |

Lab Sample ID: 890-2882-1 MS

Matrix: Solid

Analysis Batch: 34020

Client Sample ID: SW01

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 390           |                  | 251         | 623.1     |              | mg/Kg |   | 93   | 90 - 110    |

Lab Sample ID: 890-2882-1 MSD

Matrix: Solid

Analysis Batch: 34020

Client Sample ID: SW01

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 390           |                  | 251         | 620.0      |               | mg/Kg |   | 91   | 90 - 110    | 0   | 20        |



## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

## GC VOA

## Analysis Batch: 34160

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2882-1         | SW01                   | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2882-2         | SW02                   | Total/NA  | Solid  | 8021B  | 34162      |
| MB 880-34162/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34162      |
| LCS 880-34162/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34162      |
| LCSD 880-34162/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 34162      |
| 890-2881-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 34162      |

## Prep Batch: 34162

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2882-1         | SW01                   | Total/NA  | Solid  | 5035   |            |
| 890-2882-2         | SW02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34162/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34162/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34162/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2881-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2881-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34245

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2882-1    | SW01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2882-2    | SW02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2882-3    | SW03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2882-4    | SW04             | Total/NA  | Solid  | Total BTEX |            |

## Prep Batch: 34272

| Lab Sample ID         | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------|------------|
| 890-2882-3            | SW03                   | Total/NA  | Solid  | 5035   |            |
| 890-2882-4            | SW04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34272/5-A      | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34272/1-A     | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34272/2-A    | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-18879-A-101-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-18879-A-101-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34340

| Lab Sample ID         | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------|------------|
| 890-2882-3            | SW03                   | Total/NA  | Solid  | 8021B  | 34272      |
| 890-2882-4            | SW04                   | Total/NA  | Solid  | 8021B  | 34272      |
| MB 880-34272/5-A      | Method Blank           | Total/NA  | Solid  | 8021B  | 34272      |
| MB 880-34351/5-A      | Method Blank           | Total/NA  | Solid  | 8021B  | 34351      |
| LCS 880-34272/1-A     | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34272      |
| LCSD 880-34272/2-A    | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34272      |
| 880-18879-A-101-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 34272      |
| 880-18879-A-101-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 34272      |

## Prep Batch: 34351

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-34351/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

## GC Semi VOA

## Analysis Batch: 33968

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2882-1         | SW01                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2882-2         | SW02                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2882-3         | SW03                   | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2882-4         | SW04                   | Total/NA  | Solid  | 8015B NM | 34014      |
| MB 880-34014/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 34014      |
| LCS 880-34014/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 34014      |
| LCSD 880-34014/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 34014      |
| 890-2881-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 34014      |

## Prep Batch: 34014

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2882-1         | SW01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2882-2         | SW02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2882-3         | SW03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2882-4         | SW04                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-34014/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-34014/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-34014/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2881-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 34076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2882-1    | SW01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2882-2    | SW02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2882-3    | SW03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2882-4    | SW04             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 33840

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2882-1         | SW01                   | Soluble   | Solid  | DI Leach |            |
| 890-2882-2         | SW02                   | Soluble   | Solid  | DI Leach |            |
| 890-2882-3         | SW03                   | Soluble   | Solid  | DI Leach |            |
| 890-2882-4         | SW04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-33840/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-33840/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-33840/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2882-1 MS      | SW01                   | Soluble   | Solid  | DI Leach |            |
| 890-2882-1 MSD     | SW01                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 34020

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 890-2882-1        | SW01               | Soluble   | Solid  | 300.0  | 33840      |
| 890-2882-2        | SW02               | Soluble   | Solid  | 300.0  | 33840      |
| 890-2882-3        | SW03               | Soluble   | Solid  | 300.0  | 33840      |
| 890-2882-4        | SW04               | Soluble   | Solid  | 300.0  | 33840      |
| MB 880-33840/1-A  | Method Blank       | Soluble   | Solid  | 300.0  | 33840      |
| LCS 880-33840/2-A | Lab Control Sample | Soluble   | Solid  | 300.0  | 33840      |

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QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

HPLC/IC (Continued)

Analysis Batch: 34020 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCSD 880-33840/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 33840      |
| 890-2882-1 MS      | SW01                   | Soluble   | Solid  | 300.0  | 33840      |
| 890-2882-1 MSD     | SW01                   | Soluble   | Solid  | 300.0  | 33840      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

Client Sample ID: SW01

Lab Sample ID: 890-2882-1

Date Collected: 09/02/22 11:20

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/12/22 00:12       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34245        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34076        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 01:06       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 14:43       | CH      | EET MID |

Client Sample ID: SW02

Lab Sample ID: 890-2882-2

Date Collected: 09/02/22 11:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34162        | 09/11/22 14:51       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34160        | 09/12/22 00:33       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34245        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34076        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 01:28       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 15:11       | CH      | EET MID |

Client Sample ID: SW03

Lab Sample ID: 890-2882-3

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 34272        | 09/12/22 10:28       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/14/22 04:38       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34245        | 09/12/22 09:55       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34076        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 01:49       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 15:20       | CH      | EET MID |

Client Sample ID: SW04

Lab Sample ID: 890-2882-4

Date Collected: 09/02/22 11:50

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34272        | 09/12/22 10:28       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/14/22 04:59       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34245        | 09/12/22 09:55       | AJ      | EET MID |

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

Client Sample ID: SW04  
Date Collected: 09/02/22 11:50  
Date Received: 09/02/22 14:56

Lab Sample ID: 890-2882-4  
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          |                |              | 34076        | 09/09/22 10:25       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 34014        | 09/08/22 14:10       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33968        | 09/09/22 02:11       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 33840        | 09/06/22 12:41       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34020        | 09/09/22 18:19       | CH      | EET MID |

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 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

Laboratory: Eurofins Midland

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-22-24      | 06-30-23        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Ensolum

Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1

SDG: 03E1558048

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2882-1  
SDG: 03E1558048

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth  |
|---------------|------------------|--------|----------------|----------------|--------|
| 890-2882-1    | SW01             | Solid  | 09/02/22 11:20 | 09/02/22 14:56 | 0 - 2' |
| 890-2882-2    | SW02             | Solid  | 09/02/22 11:30 | 09/02/22 14:56 | 0 - 2' |
| 890-2882-3    | SW03             | Solid  | 09/02/22 11:40 | 09/02/22 14:56 | 0 - 3' |
| 890-2882-4    | SW04             | Solid  | 09/02/22 11:50 | 09/02/22 14:56 | 0 - 2' |

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Environment Testing  
Xenco

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

Chain of Custody

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

www.xenco.com Page 1 of 1

|                  |                         |                         |                      |
|------------------|-------------------------|-------------------------|----------------------|
| Project Manager: | Ben Belli               | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensolum, LLC            | Company Name:           | XTO Energy, Inc.     |
| Address:         | 3122 National Parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | belli@ensolum.com    |

|                                                                                                                                                                                                      |                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |                                                                                        |
| State of Project:                                                                                                                                                                                    |                                                                                        |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>                     | Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |

|                          |                                                                     |                                                               |                                                                           |            |  |
|--------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|------------|--|
| Project Name:            | PLU 21 BD 104H, 123H, 124H                                          | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  |
| Project Number:          | 03E1558048                                                          | Due Date:                                                     | 5 day TAT                                                                 |            |  |
| Project Location:        | EDDY COUNTY, NM                                                     | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |            |  |
| Sampler's Name:          | Gilbert Moreno                                                      |                                                               |                                                                           |            |  |
| PO #:                    |                                                                     |                                                               |                                                                           |            |  |
| <b>SAMPLE RECEIPT</b>    |                                                                     |                                                               |                                                                           |            |  |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID:                                               | 100-500                                                                   |            |  |
| Cooler Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor:                                            | -0.2                                                                      |            |  |
| Sample Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading:                                          | 5.4                                                                       |            |  |
| Total Containers:        |                                                                     | Corrected Temperature:                                        | 5.2                                                                       |            |  |



890-2882 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | ANALYSIS REQUEST | Preservative Codes                                                | Sample Comments         |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|------------------|-------------------------------------------------------------------|-------------------------|
| SW01                  | S      | 9.2.22       | 11:20        | 0-2'  | Comp      | 1         | X                      | X          | X           |                  | None: NO DI Water: H <sub>2</sub> O                               | Cost Center: 1666351001 |
| SW02                  | S      | 9.2.22       | 11:30        | 0-2'  | Comp      | 1         | X                      | X          | X           |                  | Cool: Cool MeOH: Me                                               |                         |
| SW03                  | S      | 9.2.22       | 11:40        | 0-3'  | Comp      | 1         | X                      | X          | X           |                  | HCL: HC HNO <sub>3</sub> : HN                                     |                         |
| SW04                  | S      | 9.2.22       | 11:50        | 0-2'  | Comp      | 1         | X                      | X          | X           |                  | 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                                          |                         |

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

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

|                              |                          |               |                              |                          |           |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time     | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>Ben Belli</i>             | <i>Garrett Green</i>     | 9/16/22 14:52 |                              |                          |           |
|                              |                          |               |                              |                          |           |
|                              |                          |               |                              |                          |           |
|                              |                          |               |                              |                          |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2882-1

SDG Number: 03E1558048

**Login Number: 2882****List Number: 1****Creator: Stutzman, Amanda****List Source: Eurofins Carlsbad**

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2882-1

SDG Number: 03E1558048

**Login Number: 2882****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 09/07/22 11:42 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2883-1

Laboratory Sample Delivery Group: 03E1558048

Client Project/Site: PLU 21 BD 104H, 123H, 124H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:

9/14/2022 8:33:29 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Laboratory Job ID: 890-2883-1  
SDG: 03E1558048

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

**Job ID: 890-2883-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2883-1****Receipt**

The samples were received on 9/2/2022 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34295 and analytical batch 880-34173 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS18 (890-2883-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-34272/2-A). Evidence of matrix interferences is not obvious.

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

**GC Semi VOA**

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

**HPLC/IC**

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS06

Lab Sample ID: 890-2883-1

Date Collected: 09/02/22 09:00

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 05:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 05:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 10:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U F1      | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 10:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 10:53 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 10:53 | 1       |
| o-Terphenyl    | 85        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 10:53 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 430    |           | 4.99 | mg/Kg |   |          | 09/09/22 05:13 | 1       |

Client Sample ID: FS07

Lab Sample ID: 890-2883-2

Date Collected: 09/02/22 09:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 10:28 | 09/14/22 05:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 05:40 | 1       |

Eurofins Carlsbad



## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS07

Lab Sample ID: 890-2883-2

Date Collected: 09/02/22 09:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 73        |           | 70 - 130 | 09/12/22 10:28 | 09/14/22 05:40 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 11:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 11:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 11:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 83        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 11:56 | 1       |
| o-Terphenyl                          | 86        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 11:56 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 369    |           | 5.01 | mg/Kg |   |          | 09/09/22 05:27 | 1       |

Client Sample ID: FS13

Lab Sample ID: 890-2883-3

Date Collected: 09/02/22 09:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 00:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 00:21 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS13

Lab Sample ID: 890-2883-3

Date Collected: 09/02/22 09:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 88        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:17 | 1       |
| o-Terphenyl                          | 92        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:17 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 392    |           | 4.97 | mg/Kg |   |          | 09/09/22 05:32 | 1       |

## Client Sample ID: FS14

Lab Sample ID: 890-2883-4

Date Collected: 09/02/22 09:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |       |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 |       |   | 09/12/22 13:31 | 09/13/22 00:41 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:37 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:37 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 86        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:37 | 1       |
| o-Terphenyl                          | 89        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:37 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS14

Lab Sample ID: 890-2883-4

Date Collected: 09/02/22 09:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 369    |           | 5.05 | mg/Kg |   |          | 09/09/22 05:37 | 1       |

## Client Sample ID: FS15

Lab Sample ID: 890-2883-5

Date Collected: 09/02/22 09:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |       |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 |       |   | 09/12/22 13:31 | 09/13/22 02:44 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:58 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:58 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 12:58 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 87        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:58 | 1       |
| o-Terphenyl                          | 89        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 12:58 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 249    |           | 5.02 | mg/Kg |   |          | 09/09/22 05:42 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS16

Lab Sample ID: 890-2883-6

Date Collected: 09/02/22 09:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:04 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 03:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 03:04 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:19 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:19 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:19 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 89        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 13:19 | 1       |
| o-Terphenyl    | 90        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 13:19 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 283    |           | 4.98 | mg/Kg |   |          | 09/09/22 05:57 | 1       |

Client Sample ID: FS17

Lab Sample ID: 890-2883-7

Date Collected: 09/02/22 10:00

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:31 | 09/13/22 03:25 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 03:25 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS17

Lab Sample ID: 890-2883-7

Date Collected: 09/02/22 10:00

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 81        |           | 70 - 130 | 09/12/22 13:31 | 09/13/22 03:25 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 13:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 86        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 13:40 | 1       |
| o-Terphenyl                          | 88        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 13:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 119    |           | 4.98 | mg/Kg |   |          | 09/09/22 06:01 | 1       |

Client Sample ID: FS18

Lab Sample ID: 890-2883-8

Date Collected: 09/02/22 10:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:55 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 64        | S1-       | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:55 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 175    |           | 50.0 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS18

## Lab Sample ID: 890-2883-8

Date Collected: 09/02/22 10:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:00 | 1       |
| Diesel Range Organics (Over C10-C28) | 175       |           | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:00 | 1       |
| OII Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 82        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:00 | 1       |
| o-Terphenyl                          | 84        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:00 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 167    |           | 4.95 | mg/Kg |   |          | 09/09/22 06:06 | 1       |

## Client Sample ID: FS19

## Lab Sample ID: 890-2883-9

Date Collected: 09/02/22 10:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |       |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |       |   | 09/13/22 09:09 | 09/13/22 12:15 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:22 | 1       |
| OII Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 91        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:22 | 1       |
| o-Terphenyl                          | 95        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:22 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS19

Lab Sample ID: 890-2883-9

Date Collected: 09/02/22 10:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 3'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 99.9   |           | 5.01 | mg/Kg |   |          | 09/09/22 06:12 | 1       |

## Client Sample ID: FS20

Lab Sample ID: 890-2883-10

Date Collected: 09/02/22 10:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | 0.00336   |           | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| m-Xylene & p-Xylene         | 0.00476   |           | 0.00398  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| Xylenes, Total              | 0.00476   |           | 0.00398  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 122       |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 01:51 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result  | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|---------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.00812 |           | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:42 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:42 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 14:42 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 88        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:42 | 1       |
| o-Terphenyl                          | 92        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 14:42 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 52.5   |           | 4.99 | mg/Kg |   |          | 09/09/22 06:17 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS21

Lab Sample ID: 890-2883-11

Date Collected: 09/02/22 10:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:11 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:24 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:24 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 15:24 | 1       |
| o-Terphenyl    | 94        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 15:24 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 178    |           | 5.05 | mg/Kg |   |          | 09/09/22 06:21 | 1       |

Client Sample ID: FS22

Lab Sample ID: 890-2883-12

Date Collected: 09/02/22 10:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:31 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:31 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS22

Lab Sample ID: 890-2883-12

Date Collected: 09/02/22 10:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 98        |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:31 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 15:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 15:45 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 15:45 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 46.4   |           | 5.04 | mg/Kg |   |          | 09/09/22 06:36 | 1       |

Client Sample ID: FS23

Lab Sample ID: 890-2883-13

Date Collected: 09/02/22 11:00

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 02:52 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 02:52 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS23

Lab Sample ID: 890-2883-13

Date Collected: 09/02/22 11:00

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 89        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:06 | 1       |
| o-Terphenyl                          | 94        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:06 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 35.2   |           | 5.02 | mg/Kg |   |          | 09/09/22 06:41 | 1       |

## Client Sample ID: FS24

Lab Sample ID: 890-2883-14

Date Collected: 09/02/22 11:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 03:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:27 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 86        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:27 | 1       |
| o-Terphenyl                          | 90        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:27 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS24

Lab Sample ID: 890-2883-14

Date Collected: 09/02/22 11:10

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 24.7   |           | 4.96 | mg/Kg |   |          | 09/09/22 06:55 | 1       |

## Client Sample ID: FS25

Lab Sample ID: 890-2883-15

Date Collected: 09/02/22 11:20

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |       |   | 09/12/22 13:37 | 09/13/22 03:33 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 16:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:48 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 16:48 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 40.9   |           | 4.96 | mg/Kg |   |          | 09/09/22 07:00 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS26

Lab Sample ID: 890-2883-16

Date Collected: 09/02/22 11:30

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 03:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 03:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 03:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

## Method: 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 |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:09 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:09 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:09 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 17:09 | 1       |
| o-Terphenyl    | 88        |           | 70 - 130 | 09/08/22 08:49 | 09/08/22 17:09 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 399    |           | 5.00 | mg/Kg |   |          | 09/09/22 07:05 | 1       |

Client Sample ID: FS27

Lab Sample ID: 890-2883-17

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 09/12/22 13:37 | 09/13/22 04:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 04:13 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS27

Lab Sample ID: 890-2883-17

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99        |           | 70 - 130 | 09/12/22 13:37 | 09/13/22 04:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:30 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:30 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 87        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 17:30 | 1       |
| o-Terphenyl                          | 92        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 17:30 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 528    |           | 5.02 | mg/Kg |   |          | 09/09/22 07:10 | 1       |

Client Sample ID: FS28

Lab Sample ID: 890-2883-18

Date Collected: 09/02/22 11:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:34 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:34 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 09/13/22 08:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/09/22 11:30 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS28

Lab Sample ID: 890-2883-18

Date Collected: 09/02/22 11:50

Matrix: Solid

Date Received: 09/02/22 14:56

Sample Depth: 2'

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 09/08/22 08:49 | 09/08/22 17:50 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 17:50 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |       |   | 09/08/22 08:49 | 09/08/22 17:50 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 497    |           | 4.97 | mg/Kg |   |          | 09/09/22 07:15 | 1       |

## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## 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) |
| 880-19046-A-6-G MS  | Matrix Spike           | 106                                            | 102               |
| 880-19046-A-6-H MSD | Matrix Spike Duplicate | 110                                            | 101               |
| 890-2883-1          | FS06                   | 115                                            | 89                |
| 890-2883-2          | FS07                   | 106                                            | 73                |
| 890-2883-3          | FS13                   | 109                                            | 84                |
| 890-2883-4          | FS14                   | 107                                            | 86                |
| 890-2883-5          | FS15                   | 109                                            | 88                |
| 890-2883-6          | FS16                   | 109                                            | 83                |
| 890-2883-7          | FS17                   | 107                                            | 81                |
| 890-2883-8          | FS18                   | 89                                             | 64 S1-            |
| 890-2883-9          | FS19                   | 106                                            | 108               |
| 890-2883-10         | FS20                   | 81                                             | 122               |
| 890-2883-11         | FS21                   | 106                                            | 107               |
| 890-2883-12         | FS22                   | 97                                             | 98                |
| 890-2883-13         | FS23                   | 99                                             | 102               |
| 890-2883-14         | FS24                   | 92                                             | 102               |
| 890-2883-15         | FS25                   | 97                                             | 105               |
| 890-2883-16         | FS26                   | 94                                             | 117               |
| 890-2883-17         | FS27                   | 102                                            | 99                |
| 890-2883-18         | FS28                   | 103                                            | 94                |
| 890-2883-18 MS      | FS28                   | 113                                            | 102               |
| 890-2883-18 MSD     | FS28                   | 119                                            | 107               |
| 890-2909-A-1-G MS   | Matrix Spike           | 117                                            | 108               |
| 890-2909-A-1-H MSD  | Matrix Spike Duplicate | 122                                            | 110               |
| LCS 880-34272/1-A   | Lab Control Sample     | 127                                            | 98                |
| LCS 880-34295/1-A   | Lab Control Sample     | 116                                            | 109               |
| LCS 880-34296/1-A   | Lab Control Sample     | 108                                            | 92                |
| LCS 880-34351/1-A   | Lab Control Sample     | 113                                            | 106               |
| LCSD 880-34272/2-A  | Lab Control Sample Dup | 67 S1-                                         | 99                |
| LCSD 880-34295/2-A  | Lab Control Sample Dup | 110                                            | 107               |
| LCSD 880-34296/2-A  | Lab Control Sample Dup | 118                                            | 93                |
| LCSD 880-34351/2-A  | Lab Control Sample Dup | 113                                            | 106               |
| MB 880-34213/5-A    | Method Blank           | 96                                             | 86                |
| MB 880-34272/5-A    | Method Blank           | 98                                             | 85                |
| MB 880-34295/5-A    | Method Blank           | 93                                             | 92                |
| MB 880-34296/5-A    | Method Blank           | 106                                            | 112               |
| MB 880-34351/5-A    | Method Blank           | 99                                             | 90                |

## 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) |
| 890-2883-1    | FS06             | 82                                             | 85                |
| 890-2883-1 MS | FS06             | 76                                             | 72                |

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## Surrogate Summary

Client: Ensolum

Job ID: 890-2883-1

Project/Site: PLU 21 BD 104H, 123H, 124H

SDG: 03E1558048

## 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) |
| 890-2883-1 MSD     | FS06                   | 79                                             | 73                |
| 890-2883-2         | FS07                   | 83                                             | 86                |
| 890-2883-3         | FS13                   | 88                                             | 92                |
| 890-2883-4         | FS14                   | 86                                             | 89                |
| 890-2883-5         | FS15                   | 87                                             | 89                |
| 890-2883-6         | FS16                   | 89                                             | 90                |
| 890-2883-7         | FS17                   | 86                                             | 88                |
| 890-2883-8         | FS18                   | 82                                             | 84                |
| 890-2883-9         | FS19                   | 91                                             | 95                |
| 890-2883-10        | FS20                   | 88                                             | 92                |
| 890-2883-11        | FS21                   | 90                                             | 94                |
| 890-2883-12        | FS22                   | 93                                             | 98                |
| 890-2883-13        | FS23                   | 89                                             | 94                |
| 890-2883-14        | FS24                   | 86                                             | 90                |
| 890-2883-15        | FS25                   | 98                                             | 104               |
| 890-2883-16        | FS26                   | 84                                             | 88                |
| 890-2883-17        | FS27                   | 87                                             | 92                |
| 890-2883-18        | FS28                   | 96                                             | 102               |
| LCS 880-33980/2-A  | Lab Control Sample     | 94                                             | 103               |
| LCSD 880-33980/3-A | Lab Control Sample Dup | 100                                            | 108               |
| MB 880-33980/1-A   | Method Blank           | 90                                             | 96                |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-34213/5-A

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34213

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 09:23 | 09/12/22 10:47 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 09/12/22 09:23 | 09/12/22 10:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 09/12/22 09:23 | 09/12/22 10:47 | 1       |

Lab Sample ID: MB 880-34272/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 10:28 | 09/13/22 21:47 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 09/12/22 10:28 | 09/13/22 21:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85           |              | 70 - 130 | 09/12/22 10:28 | 09/13/22 21:47 | 1       |

Lab Sample ID: LCS 880-34272/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08116    |               | mg/Kg |   | 81   | 70 - 130    |
| Toluene             | 0.100       | 0.08046    |               | mg/Kg |   | 80   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09042    |               | mg/Kg |   | 90   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1950     |               | mg/Kg |   | 97   | 70 - 130    |
| o-Xylene            | 0.100       | 0.1131     |               | mg/Kg |   | 113  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 127           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98            |               | 70 - 130 |

Lab Sample ID: LCSD 880-34272/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34272

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.07578     |                | mg/Kg |   | 76   | 70 - 130    | 7   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: LCSD 880-34272/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34272

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.08052     |                | mg/Kg |   | 81   | 70 - 130    | 0   | 35        |
| Ethylbenzene        | 0.100       | 0.09275     |                | mg/Kg |   | 93   | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2014      |                | mg/Kg |   | 101  | 70 - 130    | 3   | 35        |
| o-Xylene            | 0.100       | 0.1170      |                | mg/Kg |   | 117  | 70 - 130    | 3   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 67             | S1-            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: MB 880-34295/5-A

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34295

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 13:31 | 09/12/22 21:57 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 09/12/22 13:31 | 09/12/22 21:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 | 09/12/22 13:31 | 09/12/22 21:57 | 1       |

Lab Sample ID: LCS 880-34295/1-A

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34295

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08965    |               | mg/Kg |   | 90   | 70 - 130    |
| Toluene             | 0.100       | 0.07941    |               | mg/Kg |   | 79   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08581    |               | mg/Kg |   | 86   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1763     |               | mg/Kg |   | 88   | 70 - 130    |
| o-Xylene            | 0.100       | 0.1027     |               | mg/Kg |   | 103  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 116           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34295/2-A

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34295

| Analyte      | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene      | 0.100       | 0.08509     |                | mg/Kg |   | 85   | 70 - 130    | 5   | 35        |
| Toluene      | 0.100       | 0.07692     |                | mg/Kg |   | 77   | 70 - 130    | 3   | 35        |
| Ethylbenzene | 0.100       | 0.07998     |                | mg/Kg |   | 80   | 70 - 130    | 7   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: LCSD 880-34295/2-A

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34295

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| m-Xylene & p-Xylene | 0.200       | 0.1649      |                | mg/Kg |   | 82   | 70 - 130    | 7   | 35        |
| o-Xylene            | 0.100       | 0.09309     |                | mg/Kg |   | 93   | 70 - 130    | 10  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 110            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107            |                | 70 - 130 |

Lab Sample ID: 890-2909-A-1-G MS

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34295

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00200      | U                | 0.0998      | 0.08265   |              | mg/Kg |   | 83   | 70 - 130    |
| Toluene             | <0.00200      | U                | 0.0998      | 0.07198   |              | mg/Kg |   | 72   | 70 - 130    |
| Ethylbenzene        | <0.00200      | U                | 0.0998      | 0.07267   |              | mg/Kg |   | 73   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.1366    | F1           | mg/Kg |   | 68   | 70 - 130    |
| o-Xylene            | <0.00200      | U                | 0.0998      | 0.08208   |              | mg/Kg |   | 82   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 117          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108          |              | 70 - 130 |

Lab Sample ID: 890-2909-A-1-H MSD

Matrix: Solid

Analysis Batch: 34173

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34295

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.100       | 0.09325    |               | mg/Kg |   | 93   | 70 - 130    | 12  | 35        |
| Toluene             | <0.00200      | U                | 0.100       | 0.07646    |               | mg/Kg |   | 76   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00200      | U                | 0.100       | 0.07457    |               | mg/Kg |   | 74   | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.1342     | F1            | mg/Kg |   | 67   | 70 - 130    | 2   | 35        |
| o-Xylene            | <0.00200      | U                | 0.100       | 0.08506    |               | mg/Kg |   | 85   | 70 - 130    | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 122           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 110           |               | 70 - 130 |

Lab Sample ID: MB 880-34296/5-A

Matrix: Solid

Analysis Batch: 34301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34296

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/12/22 13:37 | 09/12/22 19:47 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106             |                 | 70 - 130 | 09/12/22 13:37 | 09/12/22 19:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112             |                 | 70 - 130 | 09/12/22 13:37 | 09/12/22 19:47 | 1       |

Lab Sample ID: LCS 880-34296/1-A

Matrix: Solid

Analysis Batch: 34301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34296

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.08335       |                  | mg/Kg |   | 83   | 70 - 130       |
| Toluene             | 0.100          | 0.09156       |                  | mg/Kg |   | 92   | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.09626       |                  | mg/Kg |   | 96   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.2062        |                  | mg/Kg |   | 103  | 70 - 130       |
| o-Xylene            | 0.100          | 0.1043        |                  | mg/Kg |   | 104  | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 108              |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92               |                  | 70 - 130 |

Lab Sample ID: LCSD 880-34296/2-A

Matrix: Solid

Analysis Batch: 34301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34296

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene             | 0.100          | 0.08280        |                   | mg/Kg |   | 83   | 70 - 130       | 1   | 35           |
| Toluene             | 0.100          | 0.09450        |                   | mg/Kg |   | 94   | 70 - 130       | 3   | 35           |
| Ethylbenzene        | 0.100          | 0.09622        |                   | mg/Kg |   | 96   | 70 - 130       | 0   | 35           |
| m-Xylene & p-Xylene | 0.200          | 0.2057         |                   | mg/Kg |   | 103  | 70 - 130       | 0   | 35           |
| o-Xylene            | 0.100          | 0.1068         |                   | mg/Kg |   | 107  | 70 - 130       | 2   | 35           |

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 118               |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93                |                   | 70 - 130 |

Lab Sample ID: 880-19046-A-6-G MS

Matrix: Solid

Analysis Batch: 34301

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34296

| 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                   | 0.0998         | 0.08107      |                 | mg/Kg |   | 81   | 70 - 130       |
| Toluene             | <0.00199         | U                   | 0.0998         | 0.07936      |                 | mg/Kg |   | 80   | 70 - 130       |
| Ethylbenzene        | <0.00199         | U                   | 0.0998         | 0.07798      |                 | mg/Kg |   | 78   | 70 - 130       |
| m-Xylene & p-Xylene | <0.00398         | U                   | 0.200          | 0.1659       |                 | mg/Kg |   | 83   | 70 - 130       |
| o-Xylene            | <0.00199         | U                   | 0.0998         | 0.08435      |                 | mg/Kg |   | 85   | 70 - 130       |

| Surrogate                   | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|-----------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106             |                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102             |                 | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: 880-19046-A-6-H MSD

Matrix: Solid

Analysis Batch: 34301

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34296

| 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      | 0.07641    |               | mg/Kg |   | 77   | 70 - 130    | 6   | 35        |
| Toluene             | <0.00199      | U                | 0.0990      | 0.07525    |               | mg/Kg |   | 76   | 70 - 130    | 5   | 35        |
| Ethylbenzene        | <0.00199      | U                | 0.0990      | 0.07499    |               | mg/Kg |   | 76   | 70 - 130    | 4   | 35        |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.198       | 0.1597     |               | mg/Kg |   | 81   | 70 - 130    | 4   | 35        |
| o-Xylene            | <0.00199      | U                | 0.0990      | 0.08073    |               | mg/Kg |   | 82   | 70 - 130    | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 110           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: MB 880-34351/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/13/22 09:09 | 09/13/22 11:13 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90           |              | 70 - 130 | 09/13/22 09:09 | 09/13/22 11:13 | 1       |

Lab Sample ID: LCS 880-34351/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08589    |               | mg/Kg |   | 86   | 70 - 130    |
| Toluene             | 0.100       | 0.07897    |               | mg/Kg |   | 79   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08358    |               | mg/Kg |   | 84   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1728     |               | mg/Kg |   | 86   | 70 - 130    |
| o-Xylene            | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 113           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34351/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34351

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08544     |                | mg/Kg |   | 85   | 70 - 130    | 1   | 35        |
| Toluene | 0.100       | 0.08090     |                | mg/Kg |   | 81   | 70 - 130    | 2   | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: LCSD 880-34351/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Ethylbenzene        | 0.100       | 0.08428     |                | mg/Kg |   | 84   | 70 - 130    | 1   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1741      |                | mg/Kg |   | 87   | 70 - 130    | 1   | 35        |
| o-Xylene            | 0.100       | 0.1008      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 113            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106            |                | 70 - 130 |

Lab Sample ID: 890-2883-18 MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: FS28

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U                | 0.0998      | 0.07796   |              | mg/Kg |   | 78   | 70 - 130    |
| Toluene             | <0.00199      | U                | 0.0998      | 0.07251   |              | mg/Kg |   | 73   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U                | 0.0998      | 0.07915   |              | mg/Kg |   | 79   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.200       | 0.1613    |              | mg/Kg |   | 81   | 70 - 130    |
| o-Xylene            | <0.00199      | U                | 0.0998      | 0.09278   |              | mg/Kg |   | 93   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 113          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 |

Lab Sample ID: 890-2883-18 MSD

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: FS28

Prep Type: Total/NA

Prep Batch: 34351

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U                | 0.0996      | 0.08998    |               | mg/Kg |   | 90   | 70 - 130    | 14  | 35        |
| Toluene             | <0.00199      | U                | 0.0996      | 0.08317    |               | mg/Kg |   | 84   | 70 - 130    | 14  | 35        |
| Ethylbenzene        | <0.00199      | U                | 0.0996      | 0.09130    |               | mg/Kg |   | 92   | 70 - 130    | 14  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.199       | 0.1882     |               | mg/Kg |   | 94   | 70 - 130    | 15  | 35        |
| o-Xylene            | <0.00199      | U                | 0.0996      | 0.1079     |               | mg/Kg |   | 108  | 70 - 130    | 15  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 119           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107           |               | 70 - 130 |

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

Lab Sample ID: MB 880-33980/1-A

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33980

| 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 |   | 09/08/22 08:49 | 09/08/22 09:52 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 09:52 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-33980/1-A

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33980

| Analyte                           | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-----------------|------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.0        | U               | 50.0 | mg/Kg |   | 09/08/22 08:49 | 09/08/22 09:52 | 1       |

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90              |                 | 70 - 130 | 09/08/22 08:49 | 09/08/22 09:52 | 1       |
| o-Terphenyl    | 96              |                 | 70 - 130 | 09/08/22 08:49 | 09/08/22 09:52 | 1       |

Lab Sample ID: LCS 880-33980/2-A

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33980

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 890.1         |                  | mg/Kg |   | 89   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000           | 903.3         |                  | mg/Kg |   | 90   | 70 - 130       |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 94               |                  | 70 - 130 |
| o-Terphenyl    | 103              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-33980/3-A

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33980

| 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           | 873.8          |                   | mg/Kg |   | 87   | 70 - 130       | 2   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000           | 984.9          |                   | mg/Kg |   | 98   | 70 - 130       | 9   | 20           |

| Surrogate      | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|----------------|-------------------|-------------------|----------|
| 1-Chlorooctane | 100               |                   | 70 - 130 |
| o-Terphenyl    | 108               |                   | 70 - 130 |

Lab Sample ID: 890-2883-1 MS

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 33980

| 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 | <50.0            | U                   | 999            | 1046         |                 | mg/Kg |   | 103  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <50.0            | U F1                | 999            | 679.4        | F1              | mg/Kg |   | 68   | 70 - 130       |

| Surrogate      | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|----------------|-----------------|-----------------|----------|
| 1-Chlorooctane | 76              |                 | 70 - 130 |
| o-Terphenyl    | 72              |                 | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

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

Lab Sample ID: 890-2883-1 MSD

Matrix: Solid

Analysis Batch: 33972

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 33980

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 996         | 1089       |               | mg/Kg |   | 108  | 70 - 130    | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 996         | 704.6      |               | mg/Kg |   | 71   | 70 - 130    | 4   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 79            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 73            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33839/1-A

Matrix: Solid

Analysis Batch: 34019

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 |   |          | 09/09/22 04:58 | 1       |

Lab Sample ID: LCS 880-33839/2-A

Matrix: Solid

Analysis Batch: 34019

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 241.9      |               | mg/Kg |   | 97   | 90 - 110    |

Lab Sample ID: LCSD 880-33839/3-A

Matrix: Solid

Analysis Batch: 34019

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         | 242.6       |                | mg/Kg |   | 97   | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-2883-1 MS

Matrix: Solid

Analysis Batch: 34019

Client Sample ID: FS06

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 430           |                  | 250         | 654.0     |              | mg/Kg |   | 90   | 90 - 110    |

Lab Sample ID: 890-2883-1 MSD

Matrix: Solid

Analysis Batch: 34019

Client Sample ID: FS06

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 430           |                  | 250         | 655.3      |               | mg/Kg |   | 90   | 90 - 110    | 0   | 20        |

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QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2883-11 MS

Matrix: Solid

Analysis Batch: 34019

Client Sample ID: FS21

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|--|
| Chloride | 178           |                  | 253         | 410.9     |              | mg/Kg |   | 92   | 90 - 110    |  |  |

Lab Sample ID: 890-2883-11 MSD

Matrix: Solid

Analysis Batch: 34019

Client Sample ID: FS21

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 178           |                  | 253         | 411.1      |               | mg/Kg |   | 92   | 90 - 110    | 0   | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## GC VOA

## Analysis Batch: 34173

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-3         | FS13                   | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2883-4         | FS14                   | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2883-5         | FS15                   | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2883-6         | FS16                   | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2883-7         | FS17                   | Total/NA  | Solid  | 8021B  | 34295      |
| MB 880-34213/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34213      |
| MB 880-34295/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34295      |
| LCS 880-34295/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34295      |
| LCSD 880-34295/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2909-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 34295      |
| 890-2909-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 34295      |

## Prep Batch: 34213

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-34213/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 34272

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-1         | FS06                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-2         | FS07                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34272/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34272/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34272/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 34295

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-3         | FS13                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-4         | FS14                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-5         | FS15                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-6         | FS16                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-7         | FS17                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34295/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34295/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34295/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2909-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2909-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 34296

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-10        | FS20                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-11        | FS21                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-12        | FS22                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-13        | FS23                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-14        | FS24                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-15        | FS25                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-16        | FS26                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-17        | FS27                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34296/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34296/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34296/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-19046-A-6-G MS | Matrix Spike           | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## GC VOA (Continued)

## Prep Batch: 34296 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-19046-A-6-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34301

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-10         | FS20                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-11         | FS21                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-12         | FS22                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-13         | FS23                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-14         | FS24                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-15         | FS25                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-16         | FS26                   | Total/NA  | Solid  | 8021B  | 34296      |
| 890-2883-17         | FS27                   | Total/NA  | Solid  | 8021B  | 34296      |
| MB 880-34296/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 34296      |
| LCS 880-34296/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34296      |
| LCSD 880-34296/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34296      |
| 880-19046-A-6-G MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 34296      |
| 880-19046-A-6-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 34296      |

## Analysis Batch: 34340

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-1         | FS06                   | Total/NA  | Solid  | 8021B  | 34272      |
| 890-2883-2         | FS07                   | Total/NA  | Solid  | 8021B  | 34272      |
| 890-2883-8         | FS18                   | Total/NA  | Solid  | 8021B  | 34351      |
| 890-2883-9         | FS19                   | Total/NA  | Solid  | 8021B  | 34351      |
| 890-2883-18        | FS28                   | Total/NA  | Solid  | 8021B  | 34351      |
| MB 880-34272/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34272      |
| MB 880-34351/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 34351      |
| LCS 880-34272/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34272      |
| LCS 880-34351/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34351      |
| LCSD 880-34272/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34272      |
| LCSD 880-34351/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34351      |
| 890-2883-18 MS     | FS28                   | Total/NA  | Solid  | 8021B  | 34351      |
| 890-2883-18 MSD    | FS28                   | Total/NA  | Solid  | 8021B  | 34351      |

## Analysis Batch: 34347

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2883-1    | FS06             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-2    | FS07             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-3    | FS13             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-4    | FS14             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-5    | FS15             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-6    | FS16             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-7    | FS17             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-8    | FS18             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-9    | FS19             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-10   | FS20             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-11   | FS21             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-12   | FS22             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-13   | FS23             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-14   | FS24             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-15   | FS25             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## GC VOA (Continued)

## Analysis Batch: 34347 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2883-16   | FS26             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-17   | FS27             | Total/NA  | Solid  | Total BTEX |            |
| 890-2883-18   | FS28             | Total/NA  | Solid  | Total BTEX |            |

## Prep Batch: 34351

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-8         | FS18                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-9         | FS19                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-18        | FS28                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34351/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34351/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34351/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2883-18 MS     | FS28                   | Total/NA  | Solid  | 5035   |            |
| 890-2883-18 MSD    | FS28                   | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

## Analysis Batch: 33972

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2883-1         | FS06                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-2         | FS07                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-3         | FS13                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-4         | FS14                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-5         | FS15                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-6         | FS16                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-7         | FS17                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-8         | FS18                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-9         | FS19                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-10        | FS20                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-11        | FS21                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-12        | FS22                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-13        | FS23                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-14        | FS24                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-15        | FS25                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-16        | FS26                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-17        | FS27                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-18        | FS28                   | Total/NA  | Solid  | 8015B NM | 33980      |
| MB 880-33980/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 33980      |
| LCS 880-33980/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 33980      |
| LCSD 880-33980/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-1 MS      | FS06                   | Total/NA  | Solid  | 8015B NM | 33980      |
| 890-2883-1 MSD     | FS06                   | Total/NA  | Solid  | 8015B NM | 33980      |

## Prep Batch: 33980

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2883-1    | FS06             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-2    | FS07             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-3    | FS13             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-4    | FS14             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-5    | FS15             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-6    | FS16             | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## GC Semi VOA (Continued)

## Prep Batch: 33980 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2883-7         | FS17                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-8         | FS18                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-9         | FS19                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-10        | FS20                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-11        | FS21                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-12        | FS22                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-13        | FS23                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-14        | FS24                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-15        | FS25                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-16        | FS26                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-17        | FS27                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-18        | FS28                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-33980/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-33980/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-33980/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-1 MS      | FS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2883-1 MSD     | FS06                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 34097

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2883-1    | FS06             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-2    | FS07             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-3    | FS13             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-4    | FS14             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-5    | FS15             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-6    | FS16             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-7    | FS17             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-8    | FS18             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-9    | FS19             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-10   | FS20             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-11   | FS21             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-12   | FS22             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-13   | FS23             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-14   | FS24             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-15   | FS25             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-16   | FS26             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-17   | FS27             | Total/NA  | Solid  | 8015 NM |            |
| 890-2883-18   | FS28             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 33839

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2883-1    | FS06             | Soluble   | Solid  | DI Leach |            |
| 890-2883-2    | FS07             | Soluble   | Solid  | DI Leach |            |
| 890-2883-3    | FS13             | Soluble   | Solid  | DI Leach |            |
| 890-2883-4    | FS14             | Soluble   | Solid  | DI Leach |            |
| 890-2883-5    | FS15             | Soluble   | Solid  | DI Leach |            |
| 890-2883-6    | FS16             | Soluble   | Solid  | DI Leach |            |
| 890-2883-7    | FS17             | Soluble   | Solid  | DI Leach |            |
| 890-2883-8    | FS18             | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## HPLC/IC (Continued)

## Leach Batch: 33839 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2883-9         | FS19                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-10        | FS20                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-11        | FS21                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-12        | FS22                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-13        | FS23                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-14        | FS24                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-15        | FS25                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-16        | FS26                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-17        | FS27                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-18        | FS28                   | Soluble   | Solid  | DI Leach |            |
| MB 880-33839/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-33839/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-33839/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2883-1 MS      | FS06                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-1 MSD     | FS06                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-11 MS     | FS21                   | Soluble   | Solid  | DI Leach |            |
| 890-2883-11 MSD    | FS21                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 34019

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2883-1         | FS06                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-2         | FS07                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-3         | FS13                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-4         | FS14                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-5         | FS15                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-6         | FS16                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-7         | FS17                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-8         | FS18                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-9         | FS19                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-10        | FS20                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-11        | FS21                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-12        | FS22                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-13        | FS23                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-14        | FS24                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-15        | FS25                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-16        | FS26                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-17        | FS27                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-18        | FS28                   | Soluble   | Solid  | 300.0  | 33839      |
| MB 880-33839/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 33839      |
| LCS 880-33839/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 33839      |
| LCSD 880-33839/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-1 MS      | FS06                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-1 MSD     | FS06                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-11 MS     | FS21                   | Soluble   | Solid  | 300.0  | 33839      |
| 890-2883-11 MSD    | FS21                   | Soluble   | Solid  | 300.0  | 33839      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS06

Lab Sample ID: 890-2883-1

Date Collected: 09/02/22 09:00

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34272        | 09/12/22 10:28       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/14/22 05:19       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 10:53       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:13       | CH      | EET MID |

Client Sample ID: FS07

Lab Sample ID: 890-2883-2

Date Collected: 09/02/22 09:10

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 34272        | 09/12/22 10:28       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/14/22 05:40       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 11:56       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:27       | CH      | EET MID |

Client Sample ID: FS13

Lab Sample ID: 890-2883-3

Date Collected: 09/02/22 09:20

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34295        | 09/12/22 13:31       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34173        | 09/13/22 00:21       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 12:17       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:32       | CH      | EET MID |

Client Sample ID: FS14

Lab Sample ID: 890-2883-4

Date Collected: 09/02/22 09:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34295        | 09/12/22 13:31       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34173        | 09/13/22 00:41       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS14

## Lab Sample ID: 890-2883-4

Date Collected: 09/02/22 09:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 12:37       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:37       | CH      | EET MID |

## Client Sample ID: FS15

## Lab Sample ID: 890-2883-5

Date Collected: 09/02/22 09:40

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34295        | 09/12/22 13:31       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34173        | 09/13/22 02:44       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 12:58       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:42       | CH      | EET MID |

## Client Sample ID: FS16

## Lab Sample ID: 890-2883-6

Date Collected: 09/02/22 09:50

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34295        | 09/12/22 13:31       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34173        | 09/13/22 03:04       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 13:19       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 05:57       | CH      | EET MID |

## Client Sample ID: FS17

## Lab Sample ID: 890-2883-7

Date Collected: 09/02/22 10:00

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34295        | 09/12/22 13:31       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34173        | 09/13/22 03:25       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 13:40       | AJ      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS17

Lab Sample ID: 890-2883-7

Date Collected: 09/02/22 10:00

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:01       | CH      | EET MID |

Client Sample ID: FS18

Lab Sample ID: 890-2883-8

Date Collected: 09/02/22 10:10

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34351        | 09/13/22 09:09       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/13/22 11:55       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 14:00       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:06       | CH      | EET MID |

Client Sample ID: FS19

Lab Sample ID: 890-2883-9

Date Collected: 09/02/22 10:20

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34351        | 09/13/22 09:09       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/13/22 12:15       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 14:22       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:12       | CH      | EET MID |

Client Sample ID: FS20

Lab Sample ID: 890-2883-10

Date Collected: 09/02/22 10:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 01:51       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 14:42       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:17       | CH      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS21

Lab Sample ID: 890-2883-11

Date Collected: 09/02/22 10:40

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 02:11       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 15:24       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:21       | CH      | EET MID |

Client Sample ID: FS22

Lab Sample ID: 890-2883-12

Date Collected: 09/02/22 10:50

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 02:31       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 15:45       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:36       | CH      | EET MID |

Client Sample ID: FS23

Lab Sample ID: 890-2883-13

Date Collected: 09/02/22 11:00

Matrix: Solid

Date Received: 09/02/22 14:56

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 02:52       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 16:06       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:41       | CH      | EET MID |

Client Sample ID: FS24

Lab Sample ID: 890-2883-14

Date Collected: 09/02/22 11:10

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 03:12       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

## Client Sample ID: FS24

## Lab Sample ID: 890-2883-14

Date Collected: 09/02/22 11:10

Matrix: Solid

Date Received: 09/02/22 14:56

| 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          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 16:27       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 06:55       | CH      | EET MID |

## Client Sample ID: FS25

## Lab Sample ID: 890-2883-15

Date Collected: 09/02/22 11:20

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 03:33       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 16:48       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 07:00       | CH      | EET MID |

## Client Sample ID: FS26

## Lab Sample ID: 890-2883-16

Date Collected: 09/02/22 11:30

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 03:53       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 17:09       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 07:05       | CH      | EET MID |

## Client Sample ID: FS27

## Lab Sample ID: 890-2883-17

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34296        | 09/12/22 13:37       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34301        | 09/13/22 04:13       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 17:30       | AJ      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Client Sample ID: FS27

Lab Sample ID: 890-2883-17

Date Collected: 09/02/22 11:40

Matrix: Solid

Date Received: 09/02/22 14:56

| 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        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 07:10       | CH      | EET MID |

Client Sample ID: FS28

Lab Sample ID: 890-2883-18

Date Collected: 09/02/22 11:50

Matrix: Solid

Date Received: 09/02/22 14:56

| 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         | 34351        | 09/13/22 09:09       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34340        | 09/13/22 11:34       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34347        | 09/13/22 08:36       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34097        | 09/09/22 11:30       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 33980        | 09/08/22 08:49       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 33972        | 09/08/22 17:50       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 33839        | 09/06/22 12:39       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 34019        | 09/09/22 07:15       | CH      | EET MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

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

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

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

## Method Summary

Client: Ensolum

Job ID: 890-2883-1

Project/Site: PLU 21 BD 104H, 123H, 124H

SDG: 03E1558048

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

## Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2883-1  
SDG: 03E1558048

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2883-1    | FS06             | Solid  | 09/02/22 09:00 | 09/02/22 14:56 | 3'    |
| 890-2883-2    | FS07             | Solid  | 09/02/22 09:10 | 09/02/22 14:56 | 3'    |
| 890-2883-3    | FS13             | Solid  | 09/02/22 09:20 | 09/02/22 14:56 | 3'    |
| 890-2883-4    | FS14             | Solid  | 09/02/22 09:30 | 09/02/22 14:56 | 3'    |
| 890-2883-5    | FS15             | Solid  | 09/02/22 09:40 | 09/02/22 14:56 | 2'    |
| 890-2883-6    | FS16             | Solid  | 09/02/22 09:50 | 09/02/22 14:56 | 2'    |
| 890-2883-7    | FS17             | Solid  | 09/02/22 10:00 | 09/02/22 14:56 | 2'    |
| 890-2883-8    | FS18             | Solid  | 09/02/22 10:10 | 09/02/22 14:56 | 2'    |
| 890-2883-9    | FS19             | Solid  | 09/02/22 10:20 | 09/02/22 14:56 | 3'    |
| 890-2883-10   | FS20             | Solid  | 09/02/22 10:30 | 09/02/22 14:56 | 2'    |
| 890-2883-11   | FS21             | Solid  | 09/02/22 10:40 | 09/02/22 14:56 | 2'    |
| 890-2883-12   | FS22             | Solid  | 09/02/22 10:50 | 09/02/22 14:56 | 2'    |
| 890-2883-13   | FS23             | Solid  | 09/02/22 11:00 | 09/02/22 14:56 | 2'    |
| 890-2883-14   | FS24             | Solid  | 09/02/22 11:10 | 09/02/22 14:56 | 2'    |
| 890-2883-15   | FS25             | Solid  | 09/02/22 11:20 | 09/02/22 14:56 | 2'    |
| 890-2883-16   | FS26             | Solid  | 09/02/22 11:30 | 09/02/22 14:56 | 2'    |
| 890-2883-17   | FS27             | Solid  | 09/02/22 11:40 | 09/02/22 14:56 | 2'    |
| 890-2883-18   | FS28             | Solid  | 09/02/22 11:50 | 09/02/22 14:56 | 2'    |





Environment Testing  
Xenco

## Chain of Custody

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

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

www.xenco.com

Page

1

of

2

|                  |                         |                         |                      |
|------------------|-------------------------|-------------------------|----------------------|
| Project Manager: | Ben Belli               | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensolum, LLC            | Company Name:           | XTO Energy, Inc.     |
| Address:         | 3122 National Parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | bbelli@ensolum.com   |

|                                                                                                                                                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Program:</b> <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b>                                            |  |
| <b>Reporting:</b> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/><br><b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |  |

|                          |                            |                                                               |                                                                           |            |     |
|--------------------------|----------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|------------|-----|
| Project Name:            | PLU 21 BD 104H, 123H, 124H | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |     |
| Project Number:          | 03E1558048                 | Due Date:                                                     | 5 day TAT                                                                 |            |     |
| Project Location:        | EDDY COUNTY, NM            | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |            |     |
| Sampler's Name:          | Gilbert Moreno             |                                                               |                                                                           |            |     |
| PO #:                    |                            |                                                               |                                                                           |            |     |
| SAMPLE RECEIPT           | Temp Blank:                | Yes                                                           | No                                                                        | Wet Ice:   | Yes |
| Samples Received Intact: | Yes                        | No                                                            | Thermometer ID:                                                           |            |     |
| Cooler Custody Seals:    | Yes                        | No                                                            | Correction Factor:                                                        |            |     |
| Sample Custody Seals:    | Yes                        | No                                                            | Temperature Reading:                                                      |            |     |
| Total Containers:        | Corrected Temperature:     |                                                               |                                                                           |            |     |



890-2883 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | ANALYSIS REQUEST | Preservative Codes                                                | Sample Comments            |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|------------------|-------------------------------------------------------------------|----------------------------|
| FS06                  | S      | 9.2.22       | 9:00         | 3'    | Comp      | 1         | X                      | X          | X           |                  | None: NO                                                          | DI Water: H <sub>2</sub> O |
| FS07                  | S      | 9.2.22       | 9:10         | 3'    | Comp      | 1         | X                      | X          | X           |                  | Cool: Cool                                                        | MeOH: Me                   |
| FS13                  | S      | 9.2.22       | 9:20         | 3'    | Comp      | 1         | X                      | X          | X           |                  | HCL: HC                                                           | HNO <sub>3</sub> : HN      |
| FS14                  | S      | 9.2.22       | 9:30         | 3'    | Comp      | 1         | X                      | X          | X           |                  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                   | NaOH: Na                   |
| FS15                  | S      | 9.2.22       | 9:40         | 2'    | Comp      | 1         | X                      | X          | X           |                  | H <sub>3</sub> PO <sub>4</sub> : HP                               |                            |
| FS16                  | S      | 9.2.22       | 9:50         | 2'    | Comp      | 1         | X                      | X          | X           |                  | NaHSO <sub>4</sub> : NABIS                                        |                            |
| FS17                  | S      | 9.2.22       | 10:00        | 2'    | Comp      | 1         | X                      | X          | X           |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |                            |
| FS18                  | S      | 9.2.22       | 10:10        | 2'    | Comp      | 1         | X                      | X          | X           |                  | Zn Acetate+NaOH: Zn                                               |                            |
| FS19                  | S      | 9.2.22       | 10:20        | 3'    | Comp      | 1         | X                      | X          | X           |                  | NaOH+Ascorbic Acid: SAPC                                          |                            |
| FS20                  | S      | 9.2.22       | 10:30        | 2'    | Comp      | 1         | X                      | X          | X           |                  |                                                                   |                            |

Cost Center: 1666351001

Incident Number:  
nAPP2208736479(104H),  
nAPP221651017(123H),  
nAPP221151438(124H)

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| 1 <i>Agrios</i>              | <i>Amador</i>            | 9/2/22 1453 |                              |                          |           |
| 3                            |                          |             |                              |                          |           |
| 5                            |                          |             |                              |                          |           |





Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

## Chain of Custody

**Work Order No.:**

www.xenco.com Page 4 of 2

|                  |                         |                         |                      |
|------------------|-------------------------|-------------------------|----------------------|
| Project Manager: | Ben Beall               | Bill to: (if different) | Garrett Green        |
| Company Name:    | Ensolum, LLC            | Company Name:           | XTO Energy, Inc.     |
| Address:         | 3122 National parks Hwy | Address:                | 3104 E. Green Street |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           | 9898540852              | Email:                  | bbeall@ensolum.com   |

| Work Order Comments                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>      |  |
| State of Project:                                                                                                                                                                |  |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:                                                                                                 |  |

[illegible][illegible]

| Circle Method(s) and Metals(s) to be analyzed                          | 200.7 / 6010                                                                                  | 200.8 / 6020:                  |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|
| 8RCRA 13PPM                                                            | 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 |                                |
| 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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 service. Eurofins Xeno 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 service. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.)

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| 1 <i>C. B. B. B.</i>         | <i>A. B. B. B.</i>       | 9/20/00 1443 |                              |                          |           |
| 3                            |                          | 4            |                              |                          |           |
| 5                            |                          | 6            |                              |                          |           |

Revised Date 08/25/2000 Rev. 2020

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2883-1

SDG Number: 03E1558048

Login Number: 2883

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2883-1

SDG Number: 03E1558048

Login Number: 2883

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 09/07/22 11:42 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 America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2984-1

Laboratory Sample Delivery Group: 03E1558048

Client Project/Site: PLU 21 BD 104H, 123H, 124H

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

9/20/2022 11:34:05 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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

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

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Laboratory Job ID: 890-2984-1  
SDG: 03E1558048

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

## 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.   |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

---

**Job ID: 890-2984-1**

---

**Laboratory: Eurofins Carlsbad**

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**Narrative**

---

**Job Narrative**  
**890-2984-1**

**Receipt**

The sample was received on 9/15/2022 3:27 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.8°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34689 and analytical batch 880-34832 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34747/2-A) and (LCSD 880-34747/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The method blank for preparation batch 880-34747 and analytical batch 880-34755 contained Gasoline Range Organics (GRO)-C6-C10 and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); 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.

**HPLC/IC**

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

Client Sample ID: FS18

Lab Sample ID: 890-2984-1

Date Collected: 09/15/22 13:35

Matrix: Solid

Date Received: 09/15/22 15:27

Sample Depth: 2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U F1      | 0.00200 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| Toluene             | <0.00200 | U F2 F1   | 0.00200 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| Ethylbenzene        | <0.00200 | U F2 F1   | 0.00200 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U F2 F1   | 0.00399 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| o-Xylene            | <0.00200 | U F2 F1   | 0.00200 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| Xylenes, Total      | <0.00399 | U F2 F1   | 0.00399 | mg/Kg |   | 09/19/22 12:00 | 09/19/22 17:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 09/19/22 12:00 | 09/19/22 17:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 09/19/22 12:00 | 09/19/22 17:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 09/20/22 09:48 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 09/20/22 09:06 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 09/19/22 08:27 | 09/19/22 13:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 09/19/22 08:27 | 09/19/22 13:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 09/19/22 08:27 | 09/19/22 13:08 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88        |           | 70 - 130 | 09/19/22 08:27 | 09/19/22 13:08 | 1       |
| o-Terphenyl    | 93        |           | 70 - 130 | 09/19/22 08:27 | 09/19/22 13:08 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 237    |           | 4.97 | mg/Kg |   |          | 09/19/22 17:29 | 1       |

Eurofins Carlsbad



## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

## 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) |
| 890-2984-1                        | FS18                   | 103                                            | 108               |
| 890-2984-1 MS                     | FS18                   | 112                                            | 103               |
| 890-2984-1 MSD                    | FS18                   | 66 S1-                                         | 112               |
| LCS 880-34689/1-A                 | Lab Control Sample     | 105                                            | 100               |
| LCSD 880-34689/2-A                | Lab Control Sample Dup | 102                                            | 103               |
| MB 880-34689/5-B                  | Method Blank           | 101                                            | 117               |
| <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) |
| 890-2984-1              | FS18                   | 88                                             | 93                |
| 890-2984-1 MS           | FS18                   | 84                                             | 78                |
| 890-2984-1 MSD          | FS18                   | 84                                             | 78                |
| LCS 880-34747/2-A       | Lab Control Sample     | 166 S1+                                        | 176 S1+           |
| LCSD 880-34747/3-A      | Lab Control Sample Dup | 186 S1+                                        | 200 S1+           |
| MB 880-34747/1-A        | Method Blank           | 91                                             | 98                |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

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

Lab Sample ID: MB 880-34689/5-B

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34689

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 09/16/22 15:45 | 09/19/22 17:24 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 09/16/22 15:45 | 09/19/22 17:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117          |              | 70 - 130 | 09/16/22 15:45 | 09/19/22 17:24 | 1       |

Lab Sample ID: LCS 880-34689/1-A

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34689

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09148    |               | mg/Kg |   | 91   | 70 - 130    |
| Toluene             | 0.100       | 0.09608    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09681    |               | mg/Kg |   | 97   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2046     |               | mg/Kg |   | 102  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1027     |               | mg/Kg |   | 103  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-34689/2-A

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34689

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09765     |                | mg/Kg |   | 98   | 70 - 130    | 7   | 35        |
| Toluene             | 0.100       | 0.09126     |                | mg/Kg |   | 91   | 70 - 130    | 5   | 35        |
| Ethylbenzene        | 0.100       | 0.08993     |                | mg/Kg |   | 90   | 70 - 130    | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1909      |                | mg/Kg |   | 95   | 70 - 130    | 7   | 35        |
| o-Xylene            | 0.100       | 0.09752     |                | mg/Kg |   | 98   | 70 - 130    | 5   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103            |                | 70 - 130 |

Lab Sample ID: 890-2984-1 MS

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: FS18

Prep Type: Total/NA

Prep Batch: 34689

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200      | U F1             | 0.0998      | 0.08170   |              | mg/Kg |   | 82   | 70 - 130    |
| Toluene | <0.00200      | U F2 F1          | 0.0998      | 0.07915   |              | mg/Kg |   | 79   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

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

Lab Sample ID: 890-2984-1 MS

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: FS18

Prep Type: Total/NA

Prep Batch: 34689

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00200      | U F2 F1          | 0.0998      | 0.07827   |              | mg/Kg |   | 78   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00399      | U F2 F1          | 0.200       | 0.1597    |              | mg/Kg |   | 80   | 70 - 130    |
| o-Xylene            | <0.00200      | U F2 F1          | 0.0998      | 0.08156   |              | mg/Kg |   | 82   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 112          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 890-2984-1 MSD

Matrix: Solid

Analysis Batch: 34832

Client Sample ID: FS18

Prep Type: Total/NA

Prep Batch: 34689

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00200      | U F1             | 0.100       | 0.06928    | F1            | mg/Kg |   | 69   | 70 - 130    | 16  | 35        |
| Toluene             | <0.00200      | U F2 F1          | 0.100       | 0.05454    | F2 F1         | mg/Kg |   | 54   | 70 - 130    | 37  | 35        |
| Ethylbenzene        | <0.00200      | U F2 F1          | 0.100       | 0.05045    | F2 F1         | mg/Kg |   | 50   | 70 - 130    | 43  | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F2 F1          | 0.201       | 0.1004     | F2 F1         | mg/Kg |   | 50   | 70 - 130    | 46  | 35        |
| o-Xylene            | <0.00200      | U F2 F1          | 0.100       | 0.05598    | F2 F1         | mg/Kg |   | 56   | 70 - 130    | 37  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 66            | S1-           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112           |               | 70 - 130 |

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

Lab Sample ID: MB 880-34747/1-A

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34747

| 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 |   | 09/19/22 08:27 | 09/19/22 12:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 09/19/22 08:27 | 09/19/22 12:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 09/19/22 08:27 | 09/19/22 12:04 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91           |              | 70 - 130 | 09/19/22 08:27 | 09/19/22 12:04 | 1       |
| o-Terphenyl    | 98           |              | 70 - 130 | 09/19/22 08:27 | 09/19/22 12:04 | 1       |

Lab Sample ID: LCS 880-34747/2-A

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34747

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 868.7      |               | mg/Kg |   | 87   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 774.2      |               | mg/Kg |   | 77   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

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

Lab Sample ID: LCS 880-34747/2-A

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34747

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 166       | S1+       | 70 - 130 |
| o-Terphenyl    | 176       | S1+       | 70 - 130 |

Lab Sample ID: LCSD 880-34747/3-A

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34747

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 920.7       |                | mg/Kg |   | 92   | 70 - 130    | 6   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 834.1       |                | mg/Kg |   | 83   | 70 - 130    | 7   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 186       | S1+       | 70 - 130 |
| o-Terphenyl    | 200       | S1+       | 70 - 130 |

Lab Sample ID: 890-2984-1 MS

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: FS18

Prep Type: Total/NA

Prep Batch: 34747

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 996         | 886.6     |              | mg/Kg |   | 87   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 996         | 711.5     |              | mg/Kg |   | 71   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 84        |           | 70 - 130 |
| o-Terphenyl    | 78        |           | 70 - 130 |

Lab Sample ID: 890-2984-1 MSD

Matrix: Solid

Analysis Batch: 34755

Client Sample ID: FS18

Prep Type: Total/NA

Prep Batch: 34747

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 999         | 887.2      |               | mg/Kg |   | 87   | 70 - 130    | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 999         | 717.5      |               | mg/Kg |   | 72   | 70 - 130    | 1   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 84        |           | 70 - 130 |
| o-Terphenyl    | 78        |           | 70 - 130 |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34799/1-A

Matrix: Solid

Analysis Batch: 34853

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 |   |          | 09/19/22 15:32 | 1       |

Lab Sample ID: LCS 880-34799/2-A

Matrix: Solid

Analysis Batch: 34853

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            | 246.7         |                  | mg/Kg |   | 99   | 90 - 110       |

Lab Sample ID: LCSD 880-34799/3-A

Matrix: Solid

Analysis Batch: 34853

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            | 247.0          |                   | mg/Kg |   | 99   | 90 - 110       | 0   | 20           |

Lab Sample ID: 880-19354-A-11-C MS

Matrix: Solid

Analysis Batch: 34853

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 | 481              |                     | 248            | 714.2        |                 | mg/Kg |   | 94   | 90 - 110       |

Lab Sample ID: 880-19354-A-11-D MSD

Matrix: Solid

Analysis Batch: 34853

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 | 481              |                     | 248            | 713.3         |                  | mg/Kg |   | 94   | 90 - 110       | 0   | 20           |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

## GC VOA

## Prep Batch: 34689

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2984-1         | FS18                   | Total/NA  | Solid  | 5035   |            |
| MB 880-34689/5-B   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-34689/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-34689/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2984-1 MS      | FS18                   | Total/NA  | Solid  | 5035   |            |
| 890-2984-1 MSD     | FS18                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 34832

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2984-1         | FS18                   | Total/NA  | Solid  | 8021B  | 34689      |
| MB 880-34689/5-B   | Method Blank           | Total/NA  | Solid  | 8021B  | 34689      |
| LCS 880-34689/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 34689      |
| LCSD 880-34689/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 34689      |
| 890-2984-1 MS      | FS18                   | Total/NA  | Solid  | 8021B  | 34689      |
| 890-2984-1 MSD     | FS18                   | Total/NA  | Solid  | 8021B  | 34689      |

## Analysis Batch: 34910

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2984-1    | FS18             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 34747

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2984-1         | FS18                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-34747/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-34747/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-34747/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2984-1 MS      | FS18                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2984-1 MSD     | FS18                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 34755

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2984-1         | FS18                   | Total/NA  | Solid  | 8015B NM | 34747      |
| MB 880-34747/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 34747      |
| LCS 880-34747/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 34747      |
| LCSD 880-34747/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 34747      |
| 890-2984-1 MS      | FS18                   | Total/NA  | Solid  | 8015B NM | 34747      |
| 890-2984-1 MSD     | FS18                   | Total/NA  | Solid  | 8015B NM | 34747      |

## Analysis Batch: 34896

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2984-1    | FS18             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 34799

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2984-1         | FS18                   | Soluble   | Solid  | DI Leach |            |
| MB 880-34799/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-34799/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-34799/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

## HPLC/IC (Continued)

## Leach Batch: 34799 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-19354-A-11-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-19354-A-11-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 34853

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2984-1           | FS18                   | Soluble   | Solid  | 300.0  | 34799      |
| MB 880-34799/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 34799      |
| LCS 880-34799/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 34799      |
| LCSD 880-34799/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 34799      |
| 880-19354-A-11-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 34799      |
| 880-19354-A-11-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 34799      |

Lab Chronicle

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

Client Sample ID: FS18      Lab Sample ID: 890-2984-1  
Date Collected: 09/15/22 13:35      Matrix: Solid  
Date Received: 09/15/22 15:27

| 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         | 34689        | 09/19/22 12:00       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 34832        | 09/19/22 17:53       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 34910        | 09/20/22 09:48       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 34896        | 09/20/22 09:06       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 34747        | 09/19/22 08:27       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 34755        | 09/19/22 13:08       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 34799        | 09/19/22 09:49       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 34853        | 09/19/22 17:29       | 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 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

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

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

## Method Summary

Client: Ensolum

Job ID: 890-2984-1

Project/Site: PLU 21 BD 104H, 123H, 124H

SDG: 03E1558048

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Sample Summary

Client: Ensolum  
Project/Site: PLU 21 BD 104H, 123H, 124H

Job ID: 890-2984-1  
SDG: 03E1558048

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2984-1    | FS18             | Solid  | 09/15/22 13:35 | 09/15/22 15:27 | 2'    |

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

## Chain of Custody

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

Environment Testing  
Xenco



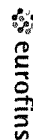
**Work Order No:**

Page 1 of 1  
www.xenco.com[illegible]

Eurofins Carlsbad

1089 N Canal St  
Carlsbad NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2984-1

SDG Number: 03E1558048

Login Number: 2984

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2984-1

SDG Number: 03E1558048

Login Number: 2984

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 09/19/22 08:28 AM

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



## APPENDIX E

### NMOCD Notifications

---



**From:** [Green, Garrett J](#)  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us); [mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us); [Hamlet, Robert, EMNRD](#)  
**Cc:** [Tacoma Morrissey](#)  
**Subject:** XTO - Sampling Notification (Week of 8/29/22 - 9/2/22)  
**Date:** Friday, August 26, 2022 3:15:37 PM

---

**[ \*\*EXTERNAL EMAIL \*\* ]**

All,

XTO plans to complete final sampling activities at the following sites the week of August 29, 2022.

Monday

- Brushy Draw West 25 / nAPP2216138431
- Big Sinks 2-24-30 / nAPP2219644709 & nAPP2220224382

Tuesday

- Brushy Draw West 25 / nAPP2216138431
- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- ADU 816/ NAB1435334641

Wednesday

- Brushy Draw West 25 / nAPP2216138431
- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- ADU 816/ NAB1435334641
- PLU Pierce Canyon 12 / nAPP222044186

Thursday

- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- JRU D12/ nAPP2211654411 & nAPP2208349430

Friday

- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- PLU S Frac Pond / nAPP2211150068

Thank you!

**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

**From:** [Collins, Melanie](#)  
**To:** [DelawareSpills /SM](#)  
**Cc:** [Aimee Cole](#); [Ben Belill](#)  
**Subject:** FW: (Extension Approval) - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438  
**Date:** Thursday, June 23, 2022 4:38:46 PM  
**Attachments:** [image002.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

---

**From:** Hamlet, Robert, EMNRD [mailto:Robert.Hamlet@state.nm.us]  
**Sent:** Thursday, June 23, 2022 3:27 PM  
**To:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Subject:** (Extension Approval) - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438

External Email – Think Before You Click

RE: Incident #**NAPP2209736479, NAPP2210942764, NAPP221651017, NAPP2211151438**

**Melanie,**

Your request for an extension to **September 21st, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Thursday, June 23, 2022 2:15 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Subject:** RE: [EXTERNAL] XTO - Extension Request - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438

My apologies for that. The correct incident number for the 3/25/2022 spill should be nAPP2209736479.

Thank you,  
Melanie Collins

---

**From:** Hamlet, Robert, EMNRD [<mailto:Robert.Hamlet@state.nm.us>]  
**Sent:** Thursday, June 23, 2022 3:11 PM  
**To:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Subject:** RE: [EXTERNAL] XTO - Extension Request - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438

External Email – Think Before You Click

Melanie,

The incident nAPP22097363379 has one too many numbers. What's the correct incident number?  
Thanks

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Thursday, June 23, 2022 7:46 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Pennington, Shelby G <[shelby.g.pennington@exxonmobil.com](mailto:shelby.g.pennington@exxonmobil.com)>; DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; [acole@ensolum.com](mailto:acole@ensolum.com); [bbelill@ensolum.com](mailto:bbelill@ensolum.com)  
**Subject:** [EXTERNAL] XTO - Extension Request - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO - Extension Request - PLU 21 BD 104H(2), 123H and 124H / nAPP22097363379, nAPP2210942764, nAPP221651017, nAPP2211151438

XTO is requesting an extension of the current deadlines of June 23, 2022, July 4, 2022, July 7, 2022, and July 14, 2022, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Poker Lake Unit 21 BD 104H(2), 124H, and 123H (Incident Numbers nAPP22097363379, nAPP2210942764, nAPP2211151438 and nAPP221651017). The four releases are located on the same well pad and occurred during frac operations on March 25, 2022, April 5, 2022, April 8, 2022, and April 15, 2022, respectively. Initial assessment of the release areas has been completed, however; remediation work could not begin until frac operations were complete. XTO operations provided notification that the pad was clear, and additional site assessment was completed on June 17, 2022. Based on the most recent analytical results, additional remediation activities are required. In order to complete the remediation activities and submit a remediation work plan or closure request, XTO is requesting a 90-day extension until September 21, 2022.

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756



## APPENDIX F

### Friction Reducer Safety Data Sheet

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# SAFETY DATA SHEET

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name POLYglide Xcel-200

### Other means of identification

Product Code(s) 10497

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

#### Manufacturer Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

### Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                   |            |
|-------------------|------------|
| Flammable liquids | Category 4 |
|-------------------|------------|

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Warning

Combustible liquid

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|                          |                              |                         |
|--------------------------|------------------------------|-------------------------|
| <b>Appearance</b> Opaque | <b>Physical state</b> Liquid | <b>Odor</b> Mineral Oil |
|--------------------------|------------------------------|-------------------------|

**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin  
Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

| Chemical name                             | CAS No     | Weight-% | Trade secret |
|-------------------------------------------|------------|----------|--------------|
| Petroleum distillates, hydrotreated light | 64742-47-8 | 40 - 70  |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                                           |                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                         | Remove to fresh air.                                                                                                                                                                                                                |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.            |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                                                                                                               |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.                                                                                                                                                                        |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.



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## 5. FIRE-FIGHTING MEASURES

|                                                       |                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                   | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.                                              |
| <b>Unsuitable extinguishing media</b>                 | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Specific hazards arising from the chemical</b>     | Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.        |
| <b>Explosion data</b>                                 |                                                                                                                                    |
| <b>Sensitivity to Mechanical Impact</b>               | None.                                                                                                                              |
| <b>Sensitivity to Static Discharge</b>                | None.                                                                                                                              |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Environmental precautions

|                                  |                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|

### Methods and material for containment and cleaning up

|                                        |                                                                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.                 |
| <b>Methods for cleaning up</b>         | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                                                                       |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                           |                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Opaque  
**Color** Milky white to yellow  
**Odor** Mineral Oil  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No data available        | None known              |
| Melting point / freezing point | No data available        | None known              |
| Boiling point / boiling range  | No data available        | None known              |
| Flash point                    | >= 67 °C / 153 °F        |                         |
| Evaporation rate               | No data available        | None known              |
| Flammability (solid, gas)      | No data available        | None known              |
| Flammability Limit in Air      |                          | None known              |
| Upper flammability limit:      | No data available        |                         |
| Lower flammability limit:      | No data available        |                         |
| Vapor pressure                 | No data available        | None known              |
| Vapor density                  | No data available        | None known              |
| Relative density               | 0.97 - 1.03              |                         |
| Water solubility               | Miscible in water        |                         |
| Solubility in other solvents   | No data available        | None known              |
| Partition coefficient          | No data available        | None known              |
| Autoignition temperature       | No data available        | None known              |
| Decomposition temperature      | No data available        | None known              |
| Kinematic viscosity            | ≥150 mm <sup>2</sup> /s  |                         |
| Dynamic viscosity              | No data available        | None known              |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |



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**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | No information available |
| Liquid Density   | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Heat, flames and sparks.                  |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific test data for the substance or mixture is not available. |

**Symptoms related to the physical, chemical and toxicological characteristics**

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

|                               |                |
|-------------------------------|----------------|
| ATEmix (oral)                 | 5,005.00 mg/kg |
| ATEmix (dermal)               | 2,002.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 5.20 mg/l      |

**Component Information**

| Chemical name                                              | Oral LD50            | Dermal LD50             | Inhalation LC50        |
|------------------------------------------------------------|----------------------|-------------------------|------------------------|
| Petroleum distillates,<br>hydrotreated light<br>64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                           |                           |
|---------------------------|---------------------------|
| Skin corrosion/irritation | No information available. |
|---------------------------|---------------------------|

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|                                   |                           |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |
| STOT - repeated exposure          | No information available. |
| Aspiration hazard                 | No information available. |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical name                                        | Algae/aquatic plants | Fish                                                                                                                                                 | Toxicity to microorganisms | Crustacea                                       |
|------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|
| Petroleum distillates, hydrotreated light 64742-47-8 | -                    | 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static<br>45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static | -                          | 4720: 96 h Den-dronereides heteropoda mg/L LC50 |

|                               |                                    |
|-------------------------------|------------------------------------|
| Persistence and degradability | No information available.          |
| Bioaccumulation               | There is no data for this product. |
| Other adverse effects         | No information available.          |

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                                     |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Do not reuse empty containers.                                                                                  |

## 14. TRANSPORT INFORMATION

|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| <u>DOT</u> | Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)) |
|------------|---------------------------------------------------------------------------|

## 15. REGULATORY INFORMATION

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Complies        |
| DSL/NDL       | Complies        |
| EINECS/ELINCS | Complies        |
| ENCS          | Does not comply |
| IECSC         | Complies        |
| KECL          | Complies        |

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PICCS Complies  
AICS Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | No  |
| Chronic Health Hazard             | No  |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**US State Regulations** This product does not contain any substances regulated by state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable



10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                |   |              |   |                  |   |                                  |   |
|-------------|----------------|---|--------------|---|------------------|---|----------------------------------|---|
| <u>NFPA</u> | Health hazards | 2 | Flammability | 2 | Instability      | 0 | Physical and chemical properties | - |
| <u>HMIS</u> | Health hazards | 2 | Flammability | 2 | Physical hazards | 0 | Personal protection              | X |

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

**Disclaimer**

The data supplied herein is for use only in connection with occupational safety and health. The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Updates to this information may be obtained by contacting (either reference contact location or website). PFP Industries MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. This information is not meant to be an all-inclusive document on worldwide hazard communication regulations. Each user of the material described herein must evaluate the conditions of use and design, many of which will be solely within the user's knowledge and control, and the appropriate protective actions, including proper notification and training of employees, necessary to prevent employee exposures, property damage or release to the environment.

**End of Safety Data Sheet**

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 145414

**CONDITIONS**

|                                                                             |                                                           |
|-----------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380                                            |
|                                                                             | Action Number:<br>145414                                  |
|                                                                             | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition Date |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| rhamlet    | The Closure Report is Approved. Chain of Custody and Analysis Request form on 6/17/22 show samples not received at proper temperature of 6 deg. Celsius or below. Samples were delivered at temperature of 14.0 deg. Celsius. Chain of Custody and Analysis Request form on 9/15/22 show samples not received at proper temperature of 6 deg. Celsius or below. Samples were delivered at temperature of 15.8 deg. Celsius. If samples are improperly cared for again on future remediation projects, the report will be immediately denied. | 12/13/2022     |