e of New Mexico

| Incident ID | NAPP2227351943 |
|----------------|----------------|
| 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 D | istrict office must be notified 2 days prior to final sampling) | | |
| Description of remediation activities | | | |
| | | | |
| Signature: Da | clease notifications and perform corrective actions for releases which C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, -141 report does not relieve the operator of responsibility for ms. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in | | |
| OCD Only | | | |
| OCD Only Jocelyn Harimon | 12/16/2022 | | |
| Received by: | Date: | | |
| | liability should their operations have failed to adequately investigate and er, human health, or the environment nor does not relieve the responsible regulations. | | |
| Closure Approved by: Robert Hamlet | Date: 3/29/2023 | | |
| Printed Name: Robert Hamlet | Title: Environmental Specialist - Advanced | | |

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | | | | OGRID 4 | OGRID 5380 | | |
|--|---|--------------------------|---|--------------------------|---|--|--|
| Contact Name Garrett Green | | | | Contact Te | Contact Telephone 575-200-0729 | | |
| | | | om | Incident # | t (assigned by OCD) | | |
| | | | reet, Carlsbad, Ne | w Mexico, 88220 | | | |
| | | | | | | | |
| | | | Location | of Release So | ource | | |
| Latitude 32. | 36256 | | | Longitude _ | -103.83810 | | |
| Latitude | | | (NAD 83 in dec | cimal degrees to 5 decim | mal places) | | |
| Site Name | IRU DI2 CT | B | | Site Type C | Central Tank Battery | | |
| Date Release | | | | API# (if app | plicable) | | |
| | I | T | | | | | |
| Unit Letter | Section | Township | Range | Coun | nty | | |
| K | 25 | 22S | 30E | EDD | DY | | |
| Surface Owner | r: State | ▼ Federal □ Tr | ribal 🔲 Private (<i>N</i> | Nama: | | | |
| Surface Owne. | 1 State | redetat 11 | iloai 🔲 i iivate (i | vame | | | |
| | Nature and Volume of Release | | | | | | |
| | Materia | l(s) Released (Select al | I that apply and attach | calculations or specific | c justification for the volumes provided below) | | |
| Crude Oil | Crude Oil Volume Released (bbls) | | on opening | Volume Recovered (bbls) | | | |
| × Produced | Water | Volume Release | ed (bbls) 36.95 | | Volume Recovered (bbls) 5.00 | | |
| | | | tion of total dissolv | ` / | Yes X No | | |
| in the produced water >10,000 mg/l? Condensate Volume Released (bbls) | | , | Volume Recovered (bbls) | | | | |
| Natural Gas Volume Released (Mcf) | | | ed (Mcf) | | Volume Recovered (Mcf) | | |
| Other (describe) Volume/Weight Released (provide units) | | e units) | Volume/Weight Recovered (provide units) | | | | |
| | | | | | | | |
| Cause of Rel | Cause of Release Corrosion on the threads of the transfer pump caused fluids to release fluids to soil. A vacuum truck recovered all free | | | | | | |
| | fluids. | A third-party cont | ractor has been ret | tained for remediati | tion purposes. | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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Page 2 Oil Conservation Division

| 73 | 73 | - C | w . | 1 6 1 |
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| 1 4 | 200 | JU | , , | UT |
| | | | | |

| Incident ID | NAPP2227351943 |
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| Application ID | |

| Was this a major | If YES, for what reason(s) does the respon | nsible pa | rty consider this a major release? |
|---|---|--------------|--|
| release as defined by | A release greater than 25 barrels. | | |
| 19.15.29.7(A) NMAC? | | | |
| 🗷 Yes 🗌 No | | | |
| Yes | | | |
| | | | |
| If YES, was immediate n | otice given to the OCD? By whom? To wh | nom? W | hen and by what means (phone, email, etc)? |
| Yes, by Bryan Foust to M | ike Bratcher, Robert Hamlet, OCD.enviro@ | state.nm | n.us on 9/19/22 via email. |
| | | | |
| | Initial D | OCROBO | |
| | Initial Ro | espons | |
| The responsible | party must undertake the following actions immediatel | y unless the | ey could create a safety hazard that would result in injury |
| | | | |
| The source of the rele | ease has been stopped. | | |
| ➤ The impacted area ha | is been secured to protect human health and | the envi | ronment. |
| Released materials ha | ave been contained via the use of berms or d | likes, abs | sorbent pads, or other containment devices. |
| ★ All free liquids and relationships ★ All free liquids and relat | ecoverable materials have been removed and | d manage | ed appropriately. |
| If all the actions describe | d above have <u>not</u> been undertaken, explain v | why: | |
| NA | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Dow 10 15 20 9 D (4) NIM | IAC the magnerials neutrinous agreements | ama adiati | on immediately often discovery of a release. If namediation |
| | | | on immediately after discovery of a release. If remediation ave been successfully completed or if the release occurred |
| | | | ach all information needed for closure evaluation. |
| I hereby certify that the info | rmation given above is true and complete to the | best of my | y knowledge and understand that pursuant to OCD rules and |
| regulations all operators are | required to report and/or file certain release noti | fications a | and perform corrective actions for releases which may endanger |
| | | | not relieve the operator of liability should their operations have ndwater, surface water, human health or the environment. In |
| addition, OCD acceptance o | | | ility for compliance with any other federal, state, or local laws |
| and/or regulations. | | | |
| Printed Name: Garrett G | reen | Title: | SSHE Coordinator |
| Signature: | At Sun | Date: | 9/30/2022 |
| email: garret.green@exx | onmobil.com | | 575-200-0729 |
| email: | | Teleph | none: |
| | | | |
| OCD Only | | | |
| OCD OMY | | | 00/00/0000 |
| Received by:Jocelyr | n Harimon | Date: _ | 09/30/2022 |
| | | | |

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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>>100</u> (ft bgs) |
|--|-------------------------|
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ⊠ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ⊠ No |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil |
| 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 well Field data Data table of soil contaminant concentration data Depth to water determination | ls. |

| Characterization Report Checklist: Each of the following tiems 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.

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

| Incident ID | NAPP2227351943 |
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| District RP | |
| Facility ID | |
| Application ID | |

| regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 regardled to adequately investigate and remediate contamination that | plete to the best of my knowledge and understand that pursuant to OCD rules and release notifications and perform corrective actions for releases which may endanger out by the OCD does not relieve the operator of liability should their operations have to pose a threat to groundwater, surface water, human health or the environment. In operator of responsibility for compliance with any other federal, state, or local laws |
|---|--|
| Printed Name: _Garrett Green | Title: _Environmental Coordinator |
| Signature: Satt Sur | Date:12/15/2022 |
| email: _garrett.green@exxonmobil.com | Telephone:575-200-0729 |
| | |
| OCD Only | |
| Received by:Jocelyn Harimon | Date: 12/16/2022 |

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|----------------|----------------|
| 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 photo must be notified 2 days prior to liner inspection) | s of the liner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate OD | OC District office must be notified 2 days prior to final sampling) |
| □ Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the Operator of the Complex of the caccordance with 19.15.29.13 NMAC including notification to the Operator of the Complex of the caccordance with 19.15.29.13 NMAC including notification to the Operator of the Complex of the caccordance with 19.15.29.13 NMAC including notification to the Operator of the Complex of the Co | lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in |
| OCD Only Jocelyn Harimon Received by: | 12/16/2022 |
| | y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible lor regulations. |
| Closure Approved by: | Date: |
| Printed Name: | Title: |



December 15, 2022

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

Re: Closure Request

JRU DI2 CTB

Incident Number NAPP2227351943

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 and soil sampling activities at the JRU DI2 Central Tank Battery (CTB; Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment and excavation activities that have occurred and requesting no further action for Incident Number NAPP2227351943.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 25, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.36256°N, 103.83810°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On September 18, 2022, corrosion on the threads of a transfer pump caused a release of approximately 36.95 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to recover free-standing fluids; 5 bbls of produced water were recovered. XTO reported the release to the NMOCD via email on September 19, 2022 and submitted a Release Notification Form C-141 (Form C-141) on September 30, 2022. The release was assigned Incident Number NAPP2227351943.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, 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.

Depth to groundwater at the Site is 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 USGS well 322215103502701, located just over a ½-mile northwest of the Site. The groundwater well has a reported depth to groundwater of 419 feet bgs, but Ensolum could not locate records containing the total depth of the well. Ground surface elevation at the groundwater well location is 3,360 feet above

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc Closure Request JRU DI2 CTB

mean sea level (amsl), which is approximately 19 feet higher in elevation than the Site. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 5,027 feet northeast of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, instituation, church, or wetland. The Site is greater than 1,000 feet from any 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). Potential site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On November 14, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The delineation 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 delineation 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 under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shippment and long term storage, but are considered to have been received in acceptable condition. Laboratory analytical results for delineation soil samples SS01 through SS07 indicated all COC concentrations were compliant with the Closure Criteria.



XTO Energy, Inc Closure Request JRU DI2 CTB

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between November 28, 2022, and November 30, 2022, Ensolum returned to the Site to oversee delineation and excavation activities. Four potholes (PH01 through PH04) were advanced in the vicinity of delineation soil samples SS01 through SS04 by use of heavy equipment and hand auger to assess the vertical extent of the release. Discrete delineation soil samples were collected from each pothole at a depth of 2 feet bgs. The delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. 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. Laboratory analytical results for delineation soil samples indicated all COC concentrations were compliant with the Closure Criteria.

Soil was excavated from the release area in the area represented by delineation soil samples SS03 and SS04, which contained elevated chloride concentrations. Soil was excavated to the strictest Table I Closure Criteria to alleviate concerns from NMOCD regarding the distance of the closest groundwater well, and the age of the depth to water data. Excavation activities were performed by use of heavy equipment. The excavation occurred on the well pad. To direct excavation activities, Ensolum personnel screened soil as described above.

Following removal of soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor and sidewalls 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 FS04 were collected from the floor of the excavation from depths ranging from 1-foot bgs to 2 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were 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 682 square feet. A total of approximately 45 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated COC concentrations were compliant with the Closure Criteria and most samples were compliant with the most stringent Table I Closure Criteria. XTO excavated soil in an area with elevated chloride concentrations, and results from all excavation soil samples were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 18, 2022, release of produced water. Laboratory analytical results for delineation soil samples and excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria. Following excavation of soil containing elevated chloride concentrations, all confirmation samples met the most stringent Table I Closure Criteria. Based on the



XTO Energy, Inc Closure Request JRU DI2 CTB

soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of soil has mitigated impacts exceeding the most stringent Table 1 Closure Criteria at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2227351943.

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

Sincerely, **Ensolum, LLC**

Meredith Roberts Field Geologist Ashley L. Ager, M.S., P.G.

Program Director

Ashley L. Ager

cc: Garrett Green, XTO

Shelby Pennington, XTO Bureau of Land Management

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

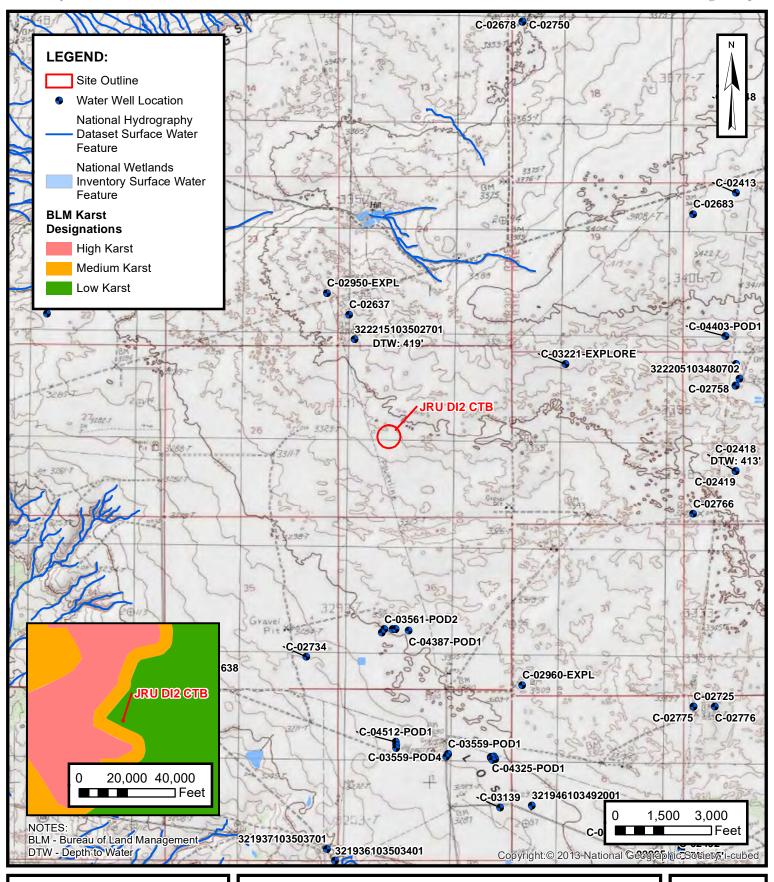
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications





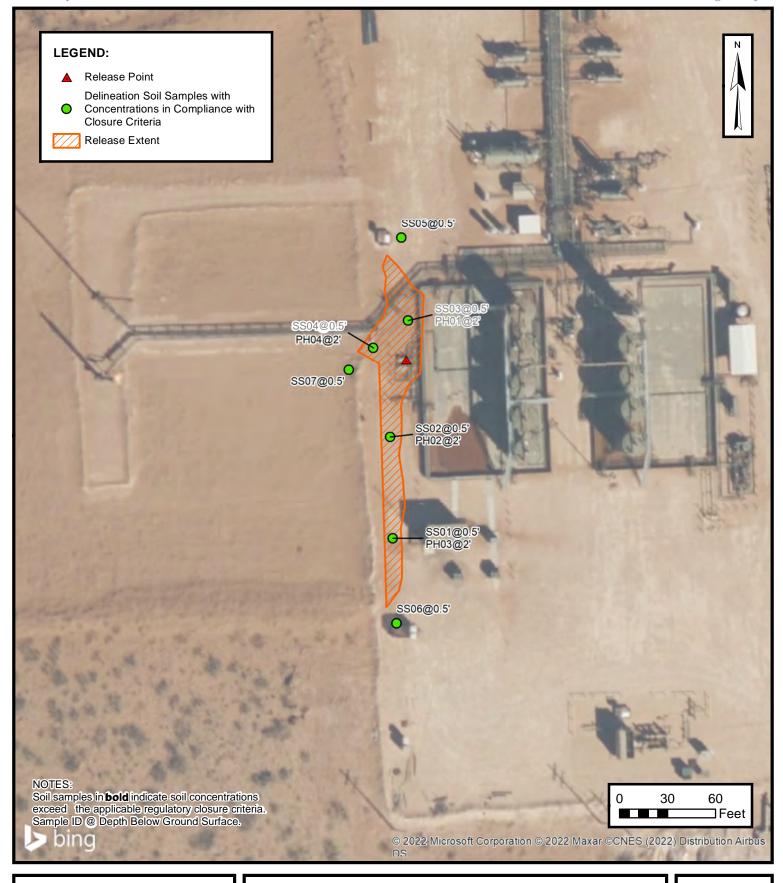
FIGURES





SITE RECEPTOR MAP

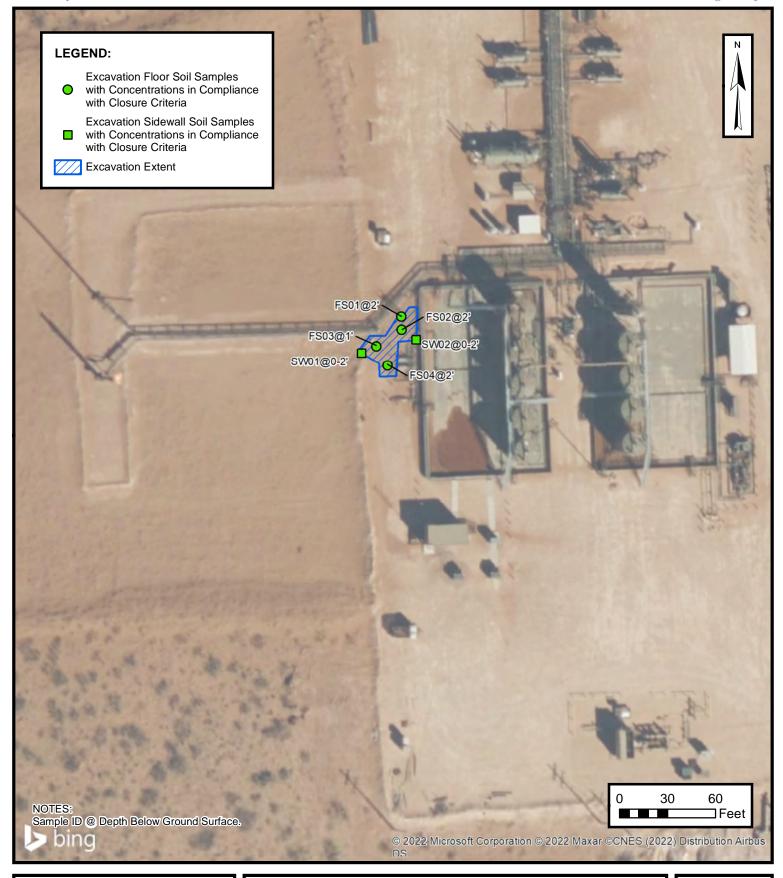
XTO ENERGY, INC JRU DI2 CTB NAPP2227351943 Unit K, Sec 25, T22S, R30E Eddy County, New Mexico FIGURE





DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC JRU DI2 CTB NAPP2227351943 Unit K, Sec 25, T22S, R30E Eddy County, New Mexico **FIGURE**





EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC JRU DI2 CTB NAPP2227351943 Unit K, Sec 25, T22S, R30E Eddy County, New Mexico **FIGURE**



TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS JRU DI2 CTB 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 C | losure Criteria (| NMAC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| | | | | Delir | neation Soil Sa | mples | | | | |
| SS01 | 11/14/2022 | 0.5 | <0.00198 | <0.00396 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 57.1 |
| PH03 | 11/28/2022 | 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 225 |
| SS02 | 11/14/2022 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 307 |
| PH02 | 11/28/2022 | 2 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 79.6 |
| \$\$03 | 11/14/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,380 |
| PH01 | 11/28/2022 | 2 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 927 |
| SS04 | 11/14/2022 | 0.5 | <0.00198 | <0.00397 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 900 |
| PH04 | 11/28/2022 | 2 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 345 |
| SS05 | 11/14/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 252 |
| SS06 | 11/14/2022 | 0.5 | <0.00202 | <0.00403 | <50.0 | 77.1 | <50.0 | 77.1 | 77.1 | 331 |
| SS07 | 11/14/2022 | 0.5 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13.7 |
| | | | | Excava | tion Floor Soil | Samples | | | | |
| FS01 | 11/30/2022 | 2 | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 367 |
| FS02 | 11/30/2022 | 2 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 168 |
| FS03 | 11/29/2022 | 1 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 267 |
| FS04 | 11/30/2022 | 2 | <0.00198 | <0.00396 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 284 |
| | | | | Excavati | on Sidewall So | il Samples | | | | |
| SW01 | 11/30/2022 | 0 - 2 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 291 |
| SW02 | 11/30/2022 | 0 - 2 | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 153 |

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 requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:
Groundwater V United States V GO

Click to hideNews Bulletins

• See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 322215103502701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322215103502701 22S.30E.24.3334 P-14

Eddy County, New Mexico

Latitude 32°22'15", Longitude 103°50'27" NAD27 Land-surface elevation 3,360 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

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

| Date | Time | ? Water- level date- time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measure |
|------------|------|------------------------------------|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|---------------------|
| | | | | | | | | | | |
| 1977-02-24 | | D | 62610 | | 2941.00 | NGVD29 | 1 | 0 | USGS | |
| 1977-02-24 | | D | 62611 | | 2942.63 | NAVD88 | 1 | 0 | USGS | |
| 1977-02-24 | | D | 72019 | 419.00 | | | 1 | 0 | USGS | |

Explanation

| Section | Code | Description |
|--------------------------------|--------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Method of measurement | 0 | Observed. |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | S | Measured by personnel of reporting agency. |
| Water-level approval status | А | Approved for publication Processing and review completed. |
| | | |

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA Privacy

Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-12-14 11:04:19 EST

0.28 0.24 nadww02

USA.gov



APPENDIX B

Photographic Log



Photographic Log XTO Energy, Inc JRU DI2 CTB NAPP2227351943



Photograph 1 Date: 11/14/2022

Description: Release extent View: Southwest



Photograph 2 Date: 11/28/2022

Description: Excavation activities near SS04

View: Southwest



Photograph 3 Date: 11/30/2022

Description: Final excavation extent

View: North



Photograph 4 Date: 11/30/2022

Description: Final excavation extent

View: Southwest



APPENDIX C

Lithologic Soil Sampling Logs

| | | | | | | | | Sample Name: PH01 | Date: 11/28/2022 | |
|---------------------|---|--------|-----|------------|-------------|-------------------|----------------|---|------------------------|--|
| | 7 | | | | | | | Site Name: JRU DI2 CTB | Dute: 11/20/2022 | |
| | | | N | 5 | OL | J | V | Incident Number: NAPP222735194 | 3 | |
| | | | | | | | | Job Number: 03E1558140 | 5 | |
| | | IITUOI | UGI | ^ / SOIL G | SAMPLING | 106 | | Logged By: Meredith Roberts Method: Excavator | | |
| Coord | linates: 32 | | | | AIVIFLIIVO | 100 | | Hole Diameter: N/A | Total Depth: 2' | |
| | | | | | ith HΔCH Ch | Inride Test 9 | | PID for chloride and vapor, respecti | · | |
| | | | | | | | | factors included. | very. emorrae test | |
| Moisture Content | Content Chloride (ppm) Vapor (ppm) Staining Sample ID Sample ID Hobdy (tt pds) USCS/Rock Symbol | | | | | (ft bgs) | Lithologic Des | criptions | | |
| | | | | | 1 | 0 | | | | |
| М | <173.6 | 0.0 | N | SS03 | 0.5' | - - - | SP-SM | SAND, red, poorly graded with | silt and caliche mixed | |
| M | 201.6 | 0.0 | N | | - | 1' | SP-SM | SAND, medium brown/ red and caliche mix | poorly graded with | |
| | 264 | 0.0 | | DI IO1 |] | - 21 | CD CA 4 | C A A | | |
| М | 364 | 0.0 | N | PH01 | 2' | 2' | SP-SM | Total depth at 2 feet bgs. | | |
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| | | | | | | | | Carrada Nama a BUO2 | Data: 44/20/2022 | |
|---------------------|---|----------|------------|------|-------------|-------------------|-----------|--|------------------------|--|
| | | _ | | | | | | Sample Name: PH02 | Date: 11/28/2022 | |
| | . | E | N | S | OI | | M | Site Name: JRU DI2 CTB | 12 | |
| | | | | | | | | Incident Number: NAPP222735194 | 13 | |
| | | | - : | | | | | Job Number: 03E1558140 | | |
| | | | | _ | SAMPLING | LOG | | Logged By: Meredith Roberts | Method: Excavator | |
| | | 2.36254, | | | | | | Hole Diameter: N/A | Total Depth: 2' | |
| | | | _ | | | | | PID for chloride and vapor, respect factors included. | ively. Chloride test | |
| Moisture Content | Content Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol | | | | | Lithologic Des | criptions | | | |
| | | | | | 1 | 0 | | | | |
| | | | | | - | - | | | | |
| М | 464 | 0.0 | N | SS02 | 0.5' | - | SP-SM | SAND, red, poorly graded with | silt and caliche mixed | |
| М | 328 | 0.0 | N | | | 1' | SP-SM | SAND, medium brown/ red and caliche mix | l poorly graded with | |
| М | <168 | 0.0 | N | PH02 | 2' - | 2' | SP-SM | 1 SAND, dark red/brown, poorly graded, some caliche Total depth at 2 feet bgs. | | |
| | | | | | _ _ _ | - - - | | | | |
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| | | | | | | | | Sample Name: PH03 | Date: 11/28/2022 |
|---------------------|--|--------|------|------------|-------------|---------------|----------------|---|---------------------------|
| | | | | | | | | Site Name: JRU DI2 CTB | - 3.c. 11/20/2022 |
| | | | N | 5 | OL | _ U | M | Incident Number: NAPP222735194 | 13 |
| | | | | | | | | Job Number: 03E1558140 | · - |
| | | LITHOI | OGIO | C / SOIL S | SAMPLING | LOG | | Logged By: Meredith Roberts | Method: Hand Auger |
| Coord | inates: 32 | | | | | | | Hole Diameter: 4" | Total Depth: 2' |
| | | | | | ith HACH Ch | loride Test S | | PID for chloride and vapor, respecti | · · |
| | | | | | | | | actors included. | |
| Moisture Content | Moisture Content Chloride (ppm) Vapor (ppm) Sample ID Sample ID OSCS/Rock Symbol | | | | | | Lithologic Des | criptions | |
| | | | | | 1 | 0 | | | |
| М | 2,032 | 0.0 | N | SS01 | 0.5' | - | ССНЕ | CALICHE, moist, tan-light brown | n, poorly consolidated. |
| М | 582.4 | 0.0 | N | | | 1' | ССНЕ | SAA | |
| | 242.5 | | ., | D. 155 | - | - - | 05.55 | | |
| M | 240.8 | 0.0 | N | PH03 | 2' | 2' | SP-SM | SAND, medium red/brown, poo Total depth at 2 feet bgs. | orly graded, some caliche |
| | | | | | _ | - | | | |
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| | | | | | | | | Sample Name: PH04 | Date: 11/28/2022 |
|---------------------|-------------------|----------------|----------|------------|-----------------------------|------------------------------|---------------------|---|------------------------|
| | | | | | | | | Site Name: JRU DI2 CTB | · · · · |
| | | | N | 3 | OL | _ U | V | Incident Number: NAPP22273519 | 943 |
| | | | | | | | | Job Number: 03E1558140 | |
| | | LITHOL | OGIO | C / SOIL S | SAMPLING | LOG | | Logged By: Meredith Roberts | Method: Hand Auger |
| Coord | inates: 32 | | | _ | | | | Hole Diameter: 4" | Total Depth: 2' |
| | | | | | | | | PID for chloride and vapor, respectactors included. | ctively. Chloride test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | escriptions |
| | | | | | | 0 | | | |
| M | 1,126 | | N | SS04 | 0.5' | - - - | | SAND, red, poorly graded with | |
| М | <168 | 0.0 | N | | - | 1' | 24-21VI | SAND, dark red/brown, poorly | y graded with silt |
| | | | | |] | - | | | |
| М | 414.4 | 0.0 | N | PH04 | 2' - | 2' | SP-SM | SAA | |
| | | | | | _ | _ | | Total depth at 2 feet bgs. | |
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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Generated 11/28/2022 4:18:53 PM

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

890-3464-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 11/28/2022 4:18:53 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 10

12

Client: Ensolum Laboratory Job ID: 890-3464-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Table of Contents

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| QC Sample Results | 8 |
| QC Association Summary | 12 |
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| Sample Summary | 17 |
| Chain of Custody | 18 |
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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

1558140

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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 | Paginian Level Concentration (Radiochemistry) |

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: JRU D12 CTB Job ID: 890-3464-1 SDG: 03E1558140

Job ID: 890-3464-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3464-1

Receipt

The sample was received on 11/15/2022 1:31 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 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-3464-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39927 and analytical batch 880-40266 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

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 Job ID: 890-3464-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Lab Sample ID: 890-3464-1 **Client Sample ID: SS06** Date Collected: 11/14/22 13:55

Matrix: Solid

Date Received: 11/15/22 13:31 Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 11/18/22 12:52 | 11/24/22 06:10 | , |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 80 | | 70 - 130 | | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 11/18/22 12:52 | 11/24/22 06:10 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 11/28/22 15:35 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 77.1 | | 50.0 | mg/Kg | | | 11/21/22 10:28 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (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 | | 11/17/22 10:08 | 11/20/22 03:11 | 1 |
| Diesel Range Organics (Over C10-C28) | 77.1 | | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/20/22 03:11 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/20/22 03:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 101 | | 70 - 130 | | | 11/17/22 10:08 | 11/20/22 03:11 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 11/17/22 10:08 | 11/20/22 03:11 | 1 |
| Method: MCAWW 300.0 - Anions | , Ion Chromato | graphy - So | oluble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 331 | | 5.01 | mg/Kg | | | 11/22/22 03:27 | 1 |

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-21690-A-1-G MS | Matrix Spike | 91 | 100 | |
| 880-21690-A-1-H MSD | Matrix Spike Duplicate | 96 | 105 | |
| 890-3464-1 | SS06 | 80 | 107 | |
| LCS 880-39927/1-A | Lab Control Sample | 89 | 106 | |
| LCSD 880-39927/2-A | Lab Control Sample Dup | 90 | 98 | |
| MB 880-39927/5-A | Method Blank | 77 | 102 | |
| MB 880-40279/5-A | Method Blank | 77 | 102 | |

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

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3461-A-25-B MS | Matrix Spike | 103 | 86 | |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | 102 | 87 | |
| 890-3464-1 | SS06 | 101 | 92 | |
| LCS 880-39787/2-A | Lab Control Sample | 95 | 99 | |
| LCSD 880-39787/3-A | Lab Control Sample Dup | 87 | 94 | |
| MB 880-39787/1-A | Method Blank | 96 | 92 | |
| Surrogate Legend | | | | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3464-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39927/5-A

Matrix: Solid Analysis Batch: 40266 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39927

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|---------------|------------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/18/22 12:5 | 11/24/22 00:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/18/22 12:5 | 2 11/24/22 00:48 | 1 |

Lab Sample ID: LCS 880-39927/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 40266

Prep Type: Total/NA Prep Batch: 39927

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09422 mg/Kg 94 70 - 130 Toluene 0.100 0.1088 mg/Kg 109 70 - 130 0.100 Ethylbenzene 0.1043 mg/Kg 104 70 - 130 0.200 0.1874 70 - 130 m-Xylene & p-Xylene mg/Kg 94 0.100 0.09251 70 - 130 o-Xylene mg/Kg 93

LCS LCS

| Surrogate | %Recovery Q | ualifier | Limits |
|-----------------------------|-------------|----------|----------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-39927/2-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample ID: Lab Control Sample Dup | Client Sam | ple ID: Lab | Control Sam | ple Dup |
|--|------------|-------------|--------------------|---------|
|--|------------|-------------|--------------------|---------|

Prep Type: Total/NA

Prep Batch: 39927

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.09072 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 | |
| Toluene | 0.100 | 0.1093 | | mg/Kg | | 109 | 70 - 130 | 0 | 35 | |
| Ethylbenzene | 0.100 | 0.1076 | | mg/Kg | | 108 | 70 - 130 | 3 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.1939 | | mg/Kg | | 97 | 70 - 130 | 3 | 35 | |
| o-Xylene | 0.100 | 0.09534 | | mg/Kg | | 95 | 70 - 130 | 3 | 35 | |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 90 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | 70 - 130 |

Lab Sample ID: 880-21690-A-1-G MS

Matrix: Solid

Analysis Batch: 40266

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

Prep Batch: 39927

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00200 | U | 0.0996 | 0.07674 | | mg/Kg | | 77 | 70 - 130 | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.07473 | | mg/Kg | | 75 | 70 - 130 | |

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Client Sample ID: Matrix Spike

39

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70 - 130

70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39927

Job ID: 890-3464-1 Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

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

Lab Sample ID: 880-21690-A-1-G MS

Matrix: Solid Analysis Batch: 40266

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Ethylbenzene | <0.00200 | U F1 | 0.0996 | 0.05289 | F1 | mg/Kg | | 53 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00399 | U F1 | 0.199 | 0.09582 | F1 | mg/Kg | | 48 | 70 - 130 | |
| o-Xylene | <0.00200 | U F1 | 0.0996 | 0.04915 | F1 | mg/Kg | | 49 | 70 - 130 | |

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

Lab Sample ID: 880-21690-A-1-H MSD

Analysis Batch: 40266

m-Xylene & p-Xylene

o-Xylene

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 39927 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits Benzene <0.00200 U 0.100 0.07160 mg/Kg 71 70 - 130 7 35 Toluene <0.00200 UF1 0.100 0.06563 F1 mg/Kg 65 70 - 130 13 35 Ethylbenzene <0.00200 UF1 0.100 0.04332 F1 43 70 - 130 20 35 mg/Kg

0.07807 F1

0.04104 F1

0.200

0.100

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 96 1,4-Difluorobenzene (Surr) 70 - 130 105

< 0.00399

<0.00200 UF1

UF1

Lab Sample ID: MB 880-40279/5-A

Matrix: Solid

| Analysis Batch: 40266 | | | | | | | Prep Batch | n: 40279 |
|-----------------------|----------|-----------|---------|-------|---|----------------|----------------|----------|
| | MB | MB | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| m Vulono 9 n Vulono | <0.00400 | 11 | 0.00400 | malka | | 11/22/22 10:46 | 11/22/22 12:12 | |

| _ | | | | | | | |
|---------------------|----------|----|---------|-------|----------------|----------------|--|
| | MB | MB | | | | | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 11/23/22 10:46 | 11/23/22 13:13 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/23/22 10:46 | 11/23/22 13:13 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 11/23/22 10:46 | 11/23/22 13:13 | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/23/22 10:46 | 11/23/22 13:13 | 1 |

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

Lab Sample ID: MB 880-39787/1-A

Matrix: Solid

Analysis Batch: 39956

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 39787

mg/Kg

mg/Kg

MB MB Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/17/22 10:08 11/19/22 20:22

(GRO)-C6-C10

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Prep Type: Total/NA

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

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

| Lab Sample ID: MB 880-39787/1-A | Client Sample ID: Method Blank |
|---------------------------------|--------------------------------|
| Matrix: Solid | Prep Type: Total/NA |
| Analysis Batch: 39956 | Prep Batch: 39787 |
| MB MB | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| | МВ | МВ | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 96 | | 70 - 130 | | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |

| Lab Sample ID: LCS 880-3978 | 7/2-A | | | | | | Client | Sample | ID: Lab Cont | rol Sample |
|-----------------------------|-----------|-----------|--------|--------|-----------|-------|--------|--------|--------------|-------------|
| Matrix: Solid | | | | | | | | | Prep Typ | e: Total/NA |
| Analysis Batch: 39956 | | | | | | | | | Prep Ba | atch: 39787 |
| | | | Spike | LCS | LCS | | | | %Rec | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | | | 1000 | 988.3 | | mg/Kg | | 99 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | | | 1000 | 999.1 | | mg/Kg | | 100 | 70 - 130 | |
| C10-C28) | | | | | | | | | | |
| | LCS | LCS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |

70 - 130

70 - 130

| Lab Sample ID: LCSD 880-39787/3-A | | | | Clier | it San | iple ID: | Lab Contro | I Sampl | e Dup |
|-----------------------------------|-------|--------|-----------|-------|--------|----------|------------|----------|--------|
| Matrix: Solid | | | | | | | Prep 1 | Гуре: To | tal/NA |
| Analysis Batch: 39956 | | | | | | | Prep | Batch: | 39787 |
| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | 1000 | 1002 | | mg/Kg | | 100 | 70 - 130 | 1 | 20 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 947.6 | | mg/Kg | | 95 | 70 - 130 | 5 | 20 |
| C10-C28) | | | | | | | | | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 87 | | 70 - 130 |
| o-Terphenyl | 94 | | 70 - 130 |

95

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| Lab Sample ID: 890-3461-A Matrix: Solid Analysis Batch: 39956 | -25-B MS | | | | | | | Client | | Matrix Spike pe: Total/NA Batch: 39787 |
|---|-----------|-----------|----------|--------|-----------|-------|---|--------|----------|--|
| • | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 833.8 | | mg/Kg | | 84 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 1015 | | mg/Kg | | 99 | 70 - 130 | |
| | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 103 | | 70 - 130 | | | | | | | |
| o-Terphenyl | 86 | | 70 - 130 | | | | | | | |

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1-Chlorooctane

o-Terphenyl

Lab Sample ID: 890-3461-A-25-C MSD

Client: Ensolum Job ID: 890-3464-1 Project/Site: JRU D12 CTB SDG: 03E1558140

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39787

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 869.2 | | mg/Kg | | 87 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 1035 | | mg/Kg | | 102 | 70 - 130 | 2 | 20 |

Limits

Matrix: Solid

Analysis Batch: 39956

MSD MSD %Recovery Qualifier Surrogate

1-Chlorooctane 70 - 130 102 o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39831/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

мв мв Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/22/22 03:10

Lab Sample ID: LCS 880-39831/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40150

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 255.5 102 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-39831/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 256.9 | | mg/Kg | _ | 103 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 890-3464-1 MS Client Sample ID: SS06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40150

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 331 | | 251 | 576.6 | | ma/Ka | _ | 98 | 90 110 | |

Lab Sample ID: 890-3464-1 MSD **Client Sample ID: SS06**

Matrix: Solid

Analysis Batch: 40150

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 331 | | 251 | 576.9 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

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Prep Type: Soluble

QC Association Summary

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

GC VOA

Prep Batch: 39927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | 5035 | |
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-39927/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-39927/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21690-A-1-G MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-21690-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 40266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | 8021B | 39927 |
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 8021B | 39927 |
| MB 880-40279/5-A | Method Blank | Total/NA | Solid | 8021B | 40279 |
| LCS 880-39927/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 39927 |
| LCSD 880-39927/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 39927 |
| 880-21690-A-1-G MS | Matrix Spike | Total/NA | Solid | 8021B | 39927 |
| 880-21690-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 39927 |

Prep Batch: 40279

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-40279/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 40486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 39787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | 8015NM Prep | |
| MB 880-39787/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-39787/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-39787/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3461-A-25-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 39956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | 8015B NM | 39787 |
| MB 880-39787/1-A | Method Blank | Total/NA | Solid | 8015B NM | 39787 |
| LCS 880-39787/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 39787 |
| LCSD 880-39787/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 39787 |
| 890-3461-A-25-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 39787 |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 39787 |

Analysis Batch: 40081

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3464-1 | SS06 | Total/NA | Solid | 8015 NM | |

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

HPLC/IC

Leach Batch: 39831

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3464-1 | SS06 | Soluble | Solid | DI Leach | |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3464-1 MS | SS06 | Soluble | Solid | DI Leach | |
| 890-3464-1 MSD | SS06 | Soluble | Solid | DI Leach | |

Analysis Batch: 40150

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3464-1 | SS06 | Soluble | Solid | 300.0 | 39831 |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | 300.0 | 39831 |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 39831 |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 39831 |
| 890-3464-1 MS | SS06 | Soluble | Solid | 300.0 | 39831 |
| 890-3464-1 MSD | SS06 | Soluble | Solid | 300.0 | 39831 |

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Lab Chronicle

Client: Ensolum Job ID: 890-3464-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: SS06 Lab Sample ID: 890-3464-1 Date Collected: 11/14/22 13:55

Matrix: Solid

Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 39927 | 11/18/22 12:52 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 06:10 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40486 | 11/28/22 15:35 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40081 | 11/21/22 10:28 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 39787 | 11/17/22 10:08 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39956 | 11/20/22 03:11 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 39831 | 11/17/22 14:43 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 03:27 | 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 Job ID: 890-3464-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date | |
|------------------------|----------------------------------|-----------------------------------|--|-------------------------|--|
| Texas | | ELAP | T104704400-22-24 | 06-30-23 | |
| The following analytes | are included in this report, but | it the laboratory is not certific | ed by the governing authority. This list ma | av include analytes fo | |
| the agency does not of | • • | it the laboratory is not certific | su by the governing authority. This list his | ay include analytes to | |
| , | • • | Matrix | Analyte | ay illoude allalytes lo | |
| the agency does not of | fer certification. | , | , , , | ay illoude allalytes lo | |

Method Summary

 Client: Ensolum
 Job ID: 890-3464-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

| 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

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Sample Summary

Client: Ensolum

Job ID: 890-3464-1

Project/Site: JRU D12 CTB SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3464-1 | SS06 | Solid | 11/14/22 13:55 | 11/15/22 13:31 | 0.5' |

eurofins

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

| 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 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 Worker: 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 lable 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. Aminimum charge of \$85.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Peclinquished by: (Signature) Pate/Time Relinquished by: (Signature) Received W: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) | Sample Identification SSOC Sil/14/22 1355 | n: 32.36356,703.83811 Due Date: ne: Meyed1+h 2054713 Tat starts the lab, if recy CEIPT TempBlank: Ves No Wet ke: Ceipy Seals: Yes No WA Correction Factor: dy Seals: Yes No WA Corrected Temperature: ers: O35-155.8140 That starts the the lab, if recy Thermometer ID: | Project Manager: Tacoma Momssey Isompany Name: Ensolum, LLC Address: 3122 Nat' Parks Hwy Address: 337.257.8307 Email: Phone: JRU D17 CTB TumA |
|--|--|--|--|
| A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg M TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se / urchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and re any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond harge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless presignature) Date/Time Relinquished by: (Signature) Date/Signature) Relinquished by: (Signature) | XB | Parameters Que de la company d | 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 Bill to: (If different) Company Name: Address: Address: Address: Address: Address: Address: Address: Address: Address: Andress: Andre |
| Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn and conditions and the control previously negotiated. PReceived by: (Signature) Date/Time | Sample Comments Includent #: APP 2227351943 Cost Center; 108 3-351001 | None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC | Work Order No: www.xenco.com Page of |

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3464-1 SDG Number: 03E1558140

Login Number: 3464 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3464-1 SDG Number: 03E1558140

Login Number: 3464 **List Source: Eurofins Midland** List Number: 2 List Creation: 11/16/22 02:15 PM

Creator: Rodriguez, Leticia

| 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 | N/A | |

<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Generated 11/28/2022 4:23:59 PM

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

890-3466-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 11/28/2022 4:23:59 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 20

Client: Ensolum

Project/Site: JRU D12 CTB

Laboratory Job ID: 890-3466-1

SDG: 03E1558140

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Definitions/Glossary

Job ID: 890-3466-1 Client: Ensolum Project/Site: JRU D12 CTB

SDG: 03E1558140

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected. U

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| m m | 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 MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG 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)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: JRU D12 CTB

Job ID: 890-3466-1 SDG: 03E1558140

Job ID: 890-3466-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3466-1

Receipt

The sample was received on 11/15/2022 1:31 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 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS07 (890-3466-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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

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

HPLC/IC

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

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| | 4

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-3466-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: SS07

Lab Sample ID: 890-3466-1

Date Collected: 11/14/22 13:40 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|--|---|----------------------------------|----------|---|---|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| Toluene | <0.00202 | U F1 | 0.00202 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| Ethylbenzene | <0.00202 | U F1 | 0.00202 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.00403 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| o-Xylene | <0.00202 | U F1 | 0.00202 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| Xylenes, Total | <0.00403 | U F1 | 0.00403 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:52 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 12:52 | |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 12:52 | |
| Method: TAL SOP Total BTEX - 1 | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| | | | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| | Result <49.9 | | RL 49.9 | Mg/Kg | <u>D</u> | Prepared | Analyzed 11/21/22 10:28 | |
| Total TPH | <49.9 | U | 49.9 | | <u>D</u> | Prepared | | |
| Total TPH Method: SW846 8015B NM - Dies | <49.9 | U | 49.9 | | <u>D</u> | Prepared Prepared | | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | <49.9 | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | <u> </u> | <u> </u> | 11/21/22 10:28 | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <49.9 sel Range Orga Result | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | <u> </u> | Prepared | 11/21/22 10:28 Analyzed | Dil Fa |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.9 sel Range Orga Result <49.9 | nics (DRO) Qualifier U | (GC) RL 49.9 | mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/17/22 10:08 | 11/21/22 10:28 Analyzed 11/20/22 03:33 | Dil Fa |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.9 sel Range Orga Result <49.9 <49.9 | Oualifier U | 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/17/22 10:08 11/17/22 10:08 | 11/21/22 10:28 Analyzed 11/20/22 03:33 11/20/22 03:33 | Dil Fa |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 | Dics (DRO) Qualifier U U | 49.9 (GC) RL 49.9 49.9 49.9 | mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/17/22 10:08 11/17/22 10:08 | Analyzed 11/20/22 03:33 11/20/22 03:33 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery | Dics (DRO) Qualifier U U | 49.9 (GC) RL 49.9 49.9 49.9 Limits | mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/17/22 10:08 11/17/22 10:08 11/17/22 10:08 Prepared | Analyzed 11/20/22 03:33 11/20/22 03:33 Analyzed | Dil Fa |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions | 49.9 sel Range Orga Result <49.9 <49.9 <80.9 %Recovery 97 95 s, lon Chromato | Dics (DRO) Qualifier U Qualifier Qualifier | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg mg/Kg | <u> </u> | Prepared 11/17/22 10:08 11/17/22 10:08 11/17/22 10:08 Prepared 11/17/22 10:08 | Analyzed 11/20/22 03:33 11/20/22 03:33 11/20/22 03:33 Analyzed 11/20/22 03:33 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | 49.9 sel Range Orga Result <49.9 <49.9 <80.9 %Recovery 97 95 s, lon Chromato | Onics (DRO) Qualifier U U Qualifier | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/17/22 10:08 11/17/22 10:08 11/17/22 10:08 Prepared 11/17/22 10:08 | Analyzed 11/20/22 03:33 11/20/22 03:33 11/20/22 03:33 Analyzed 11/20/22 03:33 | |

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3466-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3466-1 | SS07 | 85 | 107 | |
| 890-3466-1 MS | SS07 | 97 | 104 | |
| 890-3466-1 MSD | SS07 | 97 | 105 | |
| LCS 880-40226/1-A | Lab Control Sample | 91 | 107 | |
| LCSD 880-40226/2-A | Lab Control Sample Dup | 90 | 102 | |
| MB 880-39927/5-A | Method Blank | 77 | 102 | |
| MB 880-40226/5-A | Method Blank | 77 | 103 | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Rec |
|----------------------|------------------------|----------|----------|-----------------------|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3461-A-25-B MS | Matrix Spike | 103 | 86 | |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | 102 | 87 | |
| 890-3466-1 | SS07 | 97 | 95 | |
| LCS 880-39787/2-A | Lab Control Sample | 95 | 99 | |
| LCSD 880-39787/3-A | Lab Control Sample Dup | 87 | 94 | |
| MB 880-39787/1-A | Method Blank | 96 | 92 | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |

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Client: Ensolum Job ID: 890-3466-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39927/5-A

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39927

1

Dil Fac

Dil Fac

| | MB | MB | | | | | | |
|---------------------|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | • |
| Xylenes, Total | < 0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | , |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepare | d Analyzed |
|-----------------------------|-----------|-----------|----------|-------------|---------------------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/18/22 12 | 2:52 11/24/22 00:48 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/18/22 12 | 2:52 11/24/22 00:48 |

Lab Sample ID: MB 880-40226/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 40266

Analysis Batch: 40266

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

Prep Batch: 40226

| | MB MB | | | | | | |
|--------------|------------------|---------|-------|---|----------------|----------------|--------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | <0.00200 U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | |
| Toluene | <0.00200 U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | |
| Ethylbenzene | <0.00200 U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | • |
| V.d 0 V.d | 40.00400 II | 0.00400 | | | 44/00/00 45:40 | 44/04/00 40:00 | |

m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/22/22 15:18 11/24/22 12:23 <0.00200 U 0.00200 o-Xylene mg/Kg 11/22/22 15:18 11/24/22 12:23 Xylenes, Total <0.00400 U 0.00400 mg/Kg 11/22/22 15:18 11/24/22 12:23 MB MB

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

11/22/22 15:18 11/24/22 12:23

Prepared

11/22/22 15:18

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

Analyzed

11/24/22 12:23

Prep Batch: 40226

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.08641 | | mg/Kg | _ | 86 | 70 - 130 | |
| Toluene | 0.100 | 0.09417 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09022 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1641 | | mg/Kg | | 82 | 70 - 130 | |
| o-Xvlene | 0.100 | 0.08127 | | ma/Ka | | 81 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery Qualifi | er Limits |
|-----------------------------|-------------------|-----------|
| 4-Bromofluorobenzene (Surr) | 91 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | 70 - 130 |

Lab Sample ID: LCSD 880-40226/2-A

Lab Sample ID: LCS 880-40226/1-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample ID: Lab | Control Sample Dup |
|-----------------------|---------------------|
| | Dron Type, Total/NA |

Prep Type: Total/NA

Prep Batch: 40226

| | Бріке | LCSD LCSD | | | | %Rec | | RPD |
|---------|--------------|------------------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.09015 | mg/Kg | | 90 | 70 - 130 | 4 | 35 |

QC Sample Results

Client: Ensolum Job ID: 890-3466-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

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

Lab Sample ID: LCSD 880-40226/2-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample | ID: L | ab Co | ontrol | Sample | Dup |
|---------------|-------|-------|--------|--------|-----|
|---------------|-------|-------|--------|--------|-----|

Prep Type: Total/NA Prep Batch: 40226

| Limit |
|-------------|
| 35 |
| 35 |
| 35 |
| 35 |
|) 5 3 |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: 890-3466-1 MS

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: SS07 Prep Type: Total/NA

Prep Batch: 40226

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00202 | U | 0.101 | 0.07375 | | mg/Kg | | 73 | 70 - 130 | |
| Toluene | <0.00202 | U F1 | 0.101 | 0.06939 | F1 | mg/Kg | | 69 | 70 - 130 | |
| Ethylbenzene | <0.00202 | U F1 | 0.101 | 0.06488 | F1 | mg/Kg | | 64 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.202 | 0.1175 | F1 | mg/Kg | | 58 | 70 - 130 | |
| o-Xylene | <0.00202 | U F1 | 0.101 | 0.06822 | F1 | mg/Kg | | 67 | 70 - 130 | |

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 104 | 70 - 130 |

Lab Sample ID: 890-3466-1 MSD

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: SS07 Prep Type: Total/NA

Prep Batch: 40226

| Analysis Daton, 40200 | | | | | | | | | 1 100 | Dateii. | TULLU |
|-----------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|---------|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00202 | U | 0.0994 | 0.07664 | | mg/Kg | | 77 | 70 - 130 | 4 | 35 |
| Toluene | <0.00202 | U F1 | 0.0994 | 0.06568 | F1 | mg/Kg | | 66 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0994 | 0.06133 | F1 | mg/Kg | | 62 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.199 | 0.1139 | F1 | mg/Kg | | 57 | 70 - 130 | 3 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0994 | 0.07168 | | mg/Kg | | 72 | 70 - 130 | 5 | 35 |
| 1 | | | | | | | | | | | |

MSD MSD

| Surrogate | 76Kecovery | Qualifier | LIIIIII |
|-----------------------------|------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

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

Lab Sample ID: MB 880-39787/1-A

Matrix: Solid

Analysis Batch: 39956

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

Prep Batch: 39787

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 11/17/22 10:08 11/19/22 20:22 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum Job ID: 890-3466-1 Project/Site: JRU D12 CTB

SDG: 03E1558140

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

Lab Sample ID: MB 880-39787/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 39787 Analysis Batch: 39956 MB MB

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| | МВ | MB | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 96 | | 70 - 130 | | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 11/17/22 10:08 | 11/19/22 20:22 | 1 |

Lab Sample ID: LCS 880-39787/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 39956 Prep Batch: 39787 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 988.3 99 70 - 130 mg/Kg (GRO)-C6-C10 1000 999.1 100 Diesel Range Organics (Over mg/Kg 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery

1-Chlorooctane 70 - 130 95 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-39787/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 39956 Prep Batch: 39787

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics | 1000 | 1002 | | mg/Kg | | 100 | 70 - 130 | 1 | 20 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 947.6 | | mg/Kg | | 95 | 70 - 130 | 5 | 20 | |
| C10-C28) | | | | | | | | | | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 87 | | 70 - 130 |
| o-Terphenyl | 94 | | 70 - 130 |

Lab Sample ID: 890-3461-A-25-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 39956 Prep Batch: 39787

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 833.8 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 1015 | | mg/Kg | | 99 | 70 - 130 |
| | *** | 140 | | | | | | | |

| | IVIS | IVIS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 103 | | 70 - 130 |
| o-Terphenyl | 86 | | 70 - 130 |

Client: Ensolum Job ID: 890-3466-1 Project/Site: JRU D12 CTB SDG: 03E1558140

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

Lab Sample ID: 890-3461-A-25-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 39956 Prep Batch: 39787

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | <50.0 | U | 997 | 869.2 | | mg/Kg | | 87 | 70 - 130 | 4 | 20 |
| (GRO)-C6-C10 | | | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 997 | 1035 | | mg/Kg | | 102 | 70 - 130 | 2 | 20 |
| C10-C28) | | | | | | | | | | | |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 102 | | 70 - 130 |
| o-Terphenvl | 87 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39831/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 40150

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/22/22 03:10

Lab Sample ID: LCS 880-39831/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 255.5 | | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-39831/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 256.9 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 890-3464-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 331 | | 251 | 576.6 | | ma/Ka | | 98 | 90 110 | |

Lab Sample ID: 890-3464-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 40150

| • | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 331 | | 251 | 576.9 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

Eurofins Carlsbad

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Ensolum Project/Site: JRU D12 CTB

Job ID: 890-3466-1

SDG: 03E1558140

GC VOA

Prep Batch: 39927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 40226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | 5035 | |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3466-1 MS | SS07 | Total/NA | Solid | 5035 | |
| 890-3466-1 MSD | SS07 | Total/NA | Solid | 5035 | |

Analysis Batch: 40266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | 8021B | 40226 |
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 8021B | 39927 |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 8021B | 40226 |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40226 |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40226 |
| 890-3466-1 MS | SS07 | Total/NA | Solid | 8021B | 40226 |
| 890-3466-1 MSD | SS07 | Total/NA | Solid | 8021B | 40226 |

Analysis Batch: 40490

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 39787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-39787/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-39787/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-39787/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3461-A-25-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 39956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | 8015B NM | 39787 |
| MB 880-39787/1-A | Method Blank | Total/NA | Solid | 8015B NM | 39787 |
| LCS 880-39787/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 39787 |
| LCSD 880-39787/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 39787 |
| 890-3461-A-25-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 39787 |
| 890-3461-A-25-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 39787 |

Analysis Batch: 40082

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3466-1 | SS07 | Total/NA | Solid | 8015 NM | |

QC Association Summary

Client: Ensolum Job ID: 890-3466-1 Project/Site: JRU D12 CTB SDG: 03E1558140

HPLC/IC

Leach Batch: 39831

| Lab Sample ID 890-3466-1 | Client Sample ID SS07 | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|------------------------------------|------------------------|-------------------|-----------------|-----------------|------------|
| MB 880-39831/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 40150

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3466-1 | SS07 | Soluble | Solid | 300.0 | 39831 |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | 300.0 | 39831 |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 39831 |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 39831 |

Lab Chronicle

Client: Ensolum Job ID: 890-3466-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: SS07 Lab Sample ID: 890-3466-1

Matrix: Solid

Date Collected: 11/14/22 13:40 Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 12:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40490 | 11/28/22 15:35 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40082 | 11/21/22 10:28 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 39787 | 11/17/22 10:08 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39956 | 11/20/22 03:33 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 39831 | 11/17/22 14:43 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 03:44 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3466-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority | | ogram | Identification Number | Expiration Date | |
|------------------------|--------------------|-----------------------------------|--|-------------------------|--|
| Texas | NELAP | | T104704400-22-24 | 06-30-23 | |
| The fellowing analytes | | | and the contract of the contra | | |
| the agency does not of | | at the laboratory is not certific | ed by the governing authority. This list ma | ay include analytes for | |
| 0 , | | Matrix | ed by the governing authority. This list ma | ay include analytes for | |
| the agency does not of | fer certification. | • | , , , | ay include analytes for | |

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Method Summary

Job ID: 890-3466-1 Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

| 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: JRU D12 CTB

Job ID: 890-3466-1

SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3466-1 | SS07 | Solid | 11/14/22 13:40 | 11/15/22 13:31 | 0.5' |

euro fins Xenco **Environment Testing**

Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

| | | 6 | | , | | |
|---|--|---|---|--|---|--|
| | | 33 | 115821 | 6 | no wen | near |
| Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | ature) Received | linquished by: (Signature) |
| | ditions ontrol y negotiated. | 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 (e.e. 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 fins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego | pany to Eurofins Xenco, its affiliat ses or expenses incurred by the c bmitted to Eurofins Xenco, but n | a valid purchase order from client com ot assume any responsibility for any los and a charge of \$5 for each sample su | d relinquishment of samples constitutes eonly for the cost of samples and shall ne of \$85.00 will be applied to each project | gnature of this docurrent: Eurofins Xenco will be lia s Xenco. A minimum char |
| U V Zn /7471 | Ni K Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631/245.1/7470 | A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni KTCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | I AI Sb As Ba Be B Cd Ca RCRA Sb As Ba Be Cd Cr C | 8RCRA 13PPM Texas 11 AI Sb As TCLP/SPLP6010: 8RCRA Sb A | tal 200.7 / 6010 200.8 / 6020: 8 e Method(s) and Metal(s) to be analyzed | tal 200.7 / 6010 e Method(s) and l |
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| + Center: | Cost | | | | | |
| ARPECL 1501743 | 2 | | | 1 | | |
| ncident #: | Inc | X | - X | 1340 0.5 | S 1414122 | LOSS |
| Sample Comments | Sa | T | Cont OB | Time Depth Comp | Matrix Sampled | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | NaOH+A | Pr | NO | Corrected Temperature: 510 | Corrected | Containers: |
| Zn Acetate+NaOH: Zn | Zn Acet | | ri | Temperature Reading: 5 | | le Custody Seals: |
| Na ₂ S ₂ O ₃ : NaSO ₃ | Na 25 20 | 890-3466 Chain of Custodia | Pai | | | r Custody Seals: |
| 4: NABIS | NaHSO 4: NABIS | | | ter ID: | Н | les Received Intact: |
| ₩. | H ₃ PO ₄ :HP | | eters | Wetice: Yes No | Temp Blank: Yes No | PLE RECEIPT |
| NaOH: Na | H ₂ SO ₄ :H ₂ | | | the lab, if received by 4:30pm | Meredith Koberts | er's Name: |
| 0 | Cool: Cool | | | Due Date: | 32.36356, 103.8381 Due Date: | t Location: 32 |
| 10 DI Water: H ₂ O | None: NO | | Pres. | Routine Rush | 03E1558140 | t Number: 03 |
| Preservative Codes | Pre | ANALYSIS REQUEST | | Turn Around | JRU DIZ CTB | t Name: |
| Other: | Deliverables: EDD ADaPT | | monssey@ensowm.com | Email: tmon | 337-257-8507 | Carl |
| PST/UST TRRP LevelIV | evel II Level III | Parishad, NM 88220 Repo | _ | 8220 City, State ZIP: | > | tate ZIP: |
|] | of Project: | | 3104 | Address: | 3122 Natil Parks | - 13 |
| ☐ RRC ☐ Superfund ☐ | ram: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ | O Energy Program: | | Company Name: | Ensalum, LLC | |
| | Work Order Comments | Giarrett Green | | SCH Bill to: (if different) | Jacoma Morrissey | t Manager: |

Work Order No:

www.xenco.com

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3466-1

SDG Number: 03E1558140

Login Number: 3466 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3466-1 SDG Number: 03E1558140

List Source: Eurofins Midland

Login Number: 3466 List Number: 2 List Creation: 11/16/22 02:15 PM

Creator: Rodriguez, Leticia

| 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 | N/A | |

Released to Imaging: 3/29/2023 4:00:01 PM

<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Generated 11/28/2022 4:24:53 PM

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

890-3469-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 11/28/2022 4:24:53 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of

Companies

Client: Ensolum
Project/Site: JRU D12 CTB
Laboratory Job ID: 890-3469-1
SDG: 03E1558140

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Definitions/Glossary

Job ID: 890-3469-1 Client: Ensolum Project/Site: JRU D12 CTB

SDG: 03E1558140

Qualifiers

GC VOA

Qualifier **Qualifier Description** 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**

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

Percent Recovery %R 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 890-3469-1

SDG: 03E1558140

Job ID: 890-3469-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3469-1

Receipt

The sample was received on 11/15/2022 1:31 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 5.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-3469-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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 880-40185/2-A) and (LCSD 880-40185/3-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
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Lab Sample ID: 890-3469-1

Client Sample ID: SS05

Date Collected: 11/14/22 13:35

Date Received: 11/15/22 13:31

Matrix: Solid

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 13:12 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cal | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/28/22 15:35 | 1 |
| Method: SW846 8015 NM - Diese | I Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/23/22 12:17 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (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 | | 11/22/22 09:47 | 11/22/22 17:14 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/22/22 09:47 | 11/22/22 17:14 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/22/22 09:47 | 11/22/22 17:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 82 | | 70 - 130 | | | 11/22/22 09:47 | 11/22/22 17:14 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | | | 11/22/22 09:47 | 11/22/22 17:14 | 1 |
| Method: MCAWW 300.0 - Anions | • | | oluble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 252 | | 4.95 | mg/Kg | | | 11/22/22 03:49 | 1 |

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery |
|--------------------|------------------------|----------|----------|----------------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3466-A-1-C MS | Matrix Spike | 97 | 104 | |
| 890-3466-A-1-D MSD | Matrix Spike Duplicate | 97 | 105 | |
| 890-3469-1 | SS05 | 81 | 109 | |
| LCS 880-40226/1-A | Lab Control Sample | 91 | 107 | |
| LCSD 880-40226/2-A | Lab Control Sample Dup | 90 | 102 | |
| MB 880-39927/5-A | Method Blank | 77 | 102 | |
| MB 880-40226/5-A | Method Blank | 77 | 103 | |
| Surrogate Legend | | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3469-1 | SS05 | 82 | 93 | |
| 890-3499-A-1-C MS | Matrix Spike | 96 | 101 | |
| 890-3499-A-1-D MSD | Matrix Spike Duplicate | 113 | 118 | |
| LCS 880-40185/2-A | Lab Control Sample | 163 S1+ | 190 S1+ | |
| LCSD 880-40185/3-A | Lab Control Sample Dup | 157 S1+ | 180 S1+ | |
| MB 880-40185/1-A | Method Blank | 108 | 126 | |
| Surrogate Legend | | | | |

1CO = 1-Chlorooctane

DFBZ = 1,4-Difluorobenzene (Surr)

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-3469-1 Project/Site: JRU D12 CTB

SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39927/5-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample ID: Method Blank | Client | Sample | ID: | Method | Blan |
|--------------------------------|--------|--------|-----|--------|------|
|--------------------------------|--------|--------|-----|--------|------|

Prep Type: Total/NA

Prep Batch: 39927

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery Q | Qualifier | Limits |
|-----------------------------|-------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Prepared Analyzed Dil Fac 11/18/22 12:52 11/24/22 00:48 11/18/22 12:52 11/24/22 00:48

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

Prep Batch: 40226

Lab Sample ID: MB 880-40226/5-A

Matrix: Solid

Analysis Batch: 40266

| | MB | МВ | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepa | ared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|---------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/22/22 | 2 15:18 | 11/24/22 12:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 11/22/22 | 2 15:18 | 11/24/22 12:23 | 1 |

Lab Sample ID: LCS 880-40226/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 40266

| Cilent | Sample | ID: Lab | Control | Sample |
|--------|--------|---------|---------|--------|
| | | | | |

Prep Type: Total/NA Prep Batch: 40226

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08641 mg/Kg 86 70 - 130 Toluene 0.100 0.09417 mg/Kg 94 70 - 130 Ethylbenzene 0.100 0.09022 mg/Kg 90 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1641 mg/Kg 82 0.100 0.08127 70 - 130

mg/Kg

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 107 | 70 - 130 |

Lab Sample ID: LCSD 880-40226/2-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample ID: Lab | Control Sample Dup |
|-----------------------|---------------------|
| | Prep Type: Total/NA |
| | |

81

Prep Batch: 40226

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09015 mg/Kg 90 70 - 130

Job ID: 890-3469-1 Client: Ensolum Project/Site: JRU D12 CTB

SDG: 03E1558140

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

%Recovery

90

102

Qualifier

Lab Sample ID: LCSD 880-40226/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 40266 Prep Batch: 40226 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09944 70 - 130 35 mg/Kg 99 5 Ethylbenzene 0.100 0.09342 mg/Kg 93 70 - 130 3 35 m-Xylene & p-Xylene 0.200 0.1688 84 70 - 130 35 mg/Kg 3 o-Xylene 0.100 0.08416 mg/Kg 84 70 - 130 3 35 LCSD LCSD

Lab Sample ID: 890-3466-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Limits

70 - 130

70 - 130

Matrix: Solid

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Surrogate

Analysis Batch: 40266 Prep Batch: 40226

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|-----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00202 | U | 0.101 | 0.07375 | | mg/Kg | | 73 | 70 - 130 | |
| Toluene | <0.00202 | U F1 | 0.101 | 0.06939 | F1 | mg/Kg | | 69 | 70 - 130 | |
| Ethylbenzene | <0.00202 | U F1 | 0.101 | 0.06488 | F1 | mg/Kg | | 64 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.202 | 0.1175 | F1 | mg/Kg | | 58 | 70 - 130 | |
| o-Xylene | < 0.00202 | U F1 | 0.101 | 0.06822 | F1 | mg/Kg | | 67 | 70 - 130 | |

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 104

Lab Sample ID: 890-3466-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 40266 Prep Batch: 40226

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00202 | U | 0.0994 | 0.07664 | - | mg/Kg | | 77 | 70 - 130 | 4 | 35 |
| Toluene | <0.00202 | U F1 | 0.0994 | 0.06568 | F1 | mg/Kg | | 66 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0994 | 0.06133 | F1 | mg/Kg | | 62 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.199 | 0.1139 | F1 | mg/Kg | | 57 | 70 - 130 | 3 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0994 | 0.07168 | | mg/Kg | | 72 | 70 - 130 | 5 | 35 |
| | MSD | MSD | | | | | | | | | |

| | พรบ | IVISU | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

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

Lab Sample ID: MB 880-40185/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Analysis Batch: 40170 Prep Batch: 40185 MB MB

Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/22/22 08:09 11/22/22 08:21 (GRO)-C6-C10

 Client: Ensolum
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

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

Lab Sample ID: MB 880-40185/1-A

Matrix: Solid

Analysis Batch: 40170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40185

| | MB | MB | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/22/22 08:09 | 11/22/22 08:21 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/22/22 08:09 | 11/22/22 08:21 | 1 |
| | МВ | MB | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 11/22/22 08:09 | 11/22/22 08:21 | 1 |
| o-Ternhenyl | 126 | | 70 130 | | | 11/22/22 08:09 | 11/22/22 08:21 | 1 |

| Lab Sample ID: LCS 880-40 | 185/2-A | | | | | | Client | Sample | ID: Lab Control Samp |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|--------|--------|----------------------|
| Matrix: Solid | | | | | | | | | Prep Type: Total/N |
| Analysis Batch: 40170 | | | | | | | | | Prep Batch: 4018 |
| | | | Spike | LCS | LCS | | | | %Rec |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics | | | 1000 | 816.2 | | mg/Kg | | 82 | 70 - 130 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | | | 1000 | 988.2 | | mg/Kg | | 99 | 70 - 130 |
| C10-C28) | | | | | | | | | |
| | LCS | LCS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 163 | S1+ | 70 - 130 | | | | | | |
| o-Terphenyl | 190 | S1+ | 70 - 130 | | | | | | |

| Lab Sample ID: LCSD 880-40185/3-A Matrix: Solid Analysis Batch: 40170 | | | | Clier | nt San | nple ID: | • | ol Sampl Type: To Batch: | otal/NA | | |
|---|-------|--------|-----------|-------|--------|----------|----------|--------------------------------|---------|--|--|
| | Spike | LCSD | LCSD | | | | %Rec | | RPD | | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 827.6 | | mg/Kg | | 83 | 70 - 130 | 1 | 20 | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 925.3 | | mg/Kg | | 93 | 70 - 130 | 7 | 20 | | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 157 | S1+ | 70 - 130 |
| o-Terphenyl | 180 | S1+ | 70 - 130 |

101

| Lab Sample ID: 890-3499-A-1- Matrix: Solid Analysis Batch: 40170 | C MS | | | | | : Matrix Spike Type: Total/NA Batch: 40185 | | | | |
|--|-----------|-----------|----------|--------|-----------|--|---|------|----------|--|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 865.2 | | mg/Kg | | 84 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1010 | | mg/Kg | | 99 | 70 - 130 | |
| | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 96 | | 70 _ 130 | | | | | | | |

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70 - 130

o-Terphenyl

Job ID: 890-3469-1

Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

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

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 890-3499-A-1-D MSD **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40170 Prep Batch: 40185

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | <49.9 | U | 999 | 1028 | | mg/Kg | | 101 | 70 - 130 | 17 | 20 |
| (GRO)-C6-C10 | | | | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 999 | 1191 | | mg/Kg | | 117 | 70 - 130 | 16 | 20 |
| C10-C28) | | | | | | | | | | | |

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 113 | 70 - 130 |
| o-Terphenyl | 118 | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39831/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

мв мв

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/22/22 03:10 | 1 |

Lab Sample ID: LCS 880-39831/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40150

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 255.5 | - | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-39831/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 256.9 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 890-3464-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Sample | Sample | Spike | IVIS | IVIS | | | | %Rec | |
|----------|--------|-----------|--------------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 331 | | 251 | 576.6 | | mg/Kg | | 98 | 90 - 110 | |

Lab Sample ID: 890-3464-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 40150

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 331 | | 251 | 576.9 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Job ID: 890-3469-1 Project/Site: JRU D12 CTB SDG: 03E1558140

GC VOA

Prep Batch: 39927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 40226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | 5035 | |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3466-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3466-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 40266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | 8021B | 40226 |
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 8021B | 39927 |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 8021B | 40226 |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40226 |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40226 |
| 890-3466-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 40226 |
| 890-3466-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 40226 |

Analysis Batch: 40491

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 40170

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | 8015B NM | 40185 |
| MB 880-40185/1-A | Method Blank | Total/NA | Solid | 8015B NM | 40185 |
| LCS 880-40185/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 40185 |
| LCSD 880-40185/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 40185 |
| 890-3499-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 40185 |
| 890-3499-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 40185 |

Prep Batch: 40185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-40185/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-40185/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-40185/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3499-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3499-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 40307

Released to Imaging: 3/29/2023 4:00:01 PM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3469-1 | SS05 | Total/NA | Solid | 8015 NM | |

QC Association Summary

 Client: Ensolum
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

HPLC/IC

Leach Batch: 39831

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3469-1 | SS05 | Soluble | Solid | DI Leach | |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 40150

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3469-1 | SS05 | Soluble | Solid | 300.0 | 39831 |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | 300.0 | 39831 |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 39831 |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 39831 |

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: SS05 Lab Sample ID: 890-3469-1

Date Collected: 11/14/22 13:35

Date Received: 11/15/22 13:31

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 13:12 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40491 | 11/28/22 15:35 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40307 | 11/23/22 12:17 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 40185 | 11/22/22 09:47 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40170 | 11/22/22 17:14 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 39831 | 11/17/22 14:43 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 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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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3469-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority | | ogram | Identification Number | nber Expiration Date |
|------------------------|----------------------------------|-----------------------------------|--|----------------------------|
| Texas | NE | ELAP | T104704400-22-24 | 06-30-23 |
| The following analytes | are included in this report, but | t the laboratory is not certific | ed by the governing authority. This list ma | av include analytes fo |
| the agency does not of | • • | it the laboratory is not certific | su by the governing authority. This list his | ay include analytes to |
| , | • • | Matrix | Analyte | ay include analytes to |
| the agency does not of | fer certification. | , | , , , | ay illicitude allalytes lo |

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Method Summary

Job ID: 890-3469-1 Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

| 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: JRU D12 CTB

Job ID: 890-3469-1

SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3469-1 | SS05 | Solid | 11/14/22 13:35 | 11/15/22 13:31 | 0.5' |

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eurofins | Environment Testing | Xenco

Chain of Custody n, TX (281) 240-4200, Dallas, TX (214) 902-03

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

| | | 6 | | | | | |
|--|---|--|---|--|---|---|---|
| | | 2 | -15'821331 | | Chr MP | De la companya della companya della companya de la companya della | New |
| Jnature) Date∕Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | | Received by: (Signature) | Relinquished by: (Signature) | nquished b |
| | conditions le control susty negotiated. | ce. 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 iterms and conditions roke. 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 urofins 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. | rofins Xenco, its affiliates and enses incurred by the client if Eurofins Xenco, but not anah | s from client company to Eursibility for any losses or expe or each sample submitted to | t of samples constitutes a valid purchase orde st of samples and shall not assume any respon applied to each project and a charge of \$5 fc | cument and relinquishment will be liable only for the cost um charge of \$85.00 will be | nature of this de Eurofins Xenco Xenco. A minin |
| Ag SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471 | Mo Ni K Se TI U | 3 Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | | Texas 11 6010 : 8R | 8RCR, | Total 200.7 / 6010 200.8 / 6020: cle Method(s) and Metal(s) to be analyzed | Total 200.7 / 6010 cle Method(s) au |
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| incident H. | | *** | X | 0.5 | S W1422 1335 | 5 | SSO |
| Sample Comments | | | Ch BI | Depth Grab/ # of Cont | Matrix Date Time Sampled Sampled | | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | | | E | 5,6 | | | al Containers: |
| Zn Acetate+NaOH: Zn | | | ric X | 2.2 | | Yes No | nple Custody Seals: |
| NaHSO 4: NABIS Na ₂ S ₂ O ₃ : NaSO 3 | Custody | 890-3469 Chain of C | | Parame | Thermometer ID: Correction Factor: | act: | nples Received Intact: oler Custody Seals: |
| | | | | Н | O No | Temp Blank: | MPLE RECEIPT |
| HCL: HC HNO 3: HN | | | | TAT starts the day received by the lab, if received by 4:30pm | | Meredith Roberts | pler's Name: |
| 0 | | | | | 32.36 256 703.838 Due Date: | 32.36251 | ject Location: |
| None: NO DI Water: H ₂ O | | | | Rush Code | 3140 Moutine | 03E1558140 | ject Number: |
| Preservative Codes | | ANALYSIS REQUEST | | Turn Around | | JRU DIZ CTB | ect Name: |
| ADaPT Other: | Deliverables: EDD | | morrisse Censolum. com | tmorr | 57.8307 Email: | 337.25 | |
| PST/UST TRRP Level IV | Reporting: Level II Level III L | 02288 WN | Carisback | City, State ZIP: | NM 88226 | Carlsbad | , State ZIP: |
|] | State of Project: | ne St | 3104 E | Address: | Parks Hwy | 3122 Nati | ress: |
|] Brownfields RRC Superfund | Program: UST/PST PRP | Encray | XTO | Company Name: | m. LLC | Enscium. | npany Name: |
| act continues | | | MOI | on to: (ii dillerent) | LACOLL JACA | 1 SCOM | ect Manager: |

Work Order No:

www.xenco.com

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3469-1

SDG Number: 03E1558140

Login Number: 3469 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3469-1 SDG Number: 03E1558140

> List Source: Eurofins Midland List Creation: 11/17/22 02:07 PM

Creator: Rodriguez, Leticia

Login Number: 3469

List Number: 2

| 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 | N/A | |

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<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Generated 11/28/2022 4:24:52 PM

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

890-3472-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization

Generated 11/28/2022 4:24:52 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: JRU D12 CTB
Laboratory Job ID: 890-3472-1
SDG: 03E1558140

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Definitions/Glossary

Job ID: 890-3472-1 Client: Ensolum Project/Site: JRU D12 CTB

SDG: 03E1558140

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier

Qualifier **Qualifier Description**

Qualifier Description

Indicates the analyte was analyzed for but not detected.

Glossary

LOQ

| 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)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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 **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: JRU D12 CTB

Job ID: 890-3472-1 SDG: 03E1558140

Job ID: 890-3472-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3472-1

Receipt

The samples were received on 11/15/2022 1:31 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 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3472-1), SS02 (890-3472-2), SS03 (890-3472-3) and SS04 (890-3472-4).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40226 and analytical batch 880-40266 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: The surrogate recovery for the blank associated with preparation batch 880-39929 and analytical batch 880-40028 was outside the upper control limits.

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

HPLC/IC

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

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 Client: Ensolum
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: SS01 Lab Sample ID: 890-3472-1

Date Collected: 11/14/22 12:45
Date Received: 11/15/22 13:31
Matrix: Solid

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|-------------------------------------|--|---------------------------|--------------|---|--|-----------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| m-Xylene & p-Xylene | < 0.00396 | U | 0.00396 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 13:32 | 1 |
| Method: TAL SOP Total BTEX - | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 11/28/22 15:35 | 1 |
| | | | GC) | | | | | |
| | | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Analyte Total TPH | Result <50.0 | | • | Mg/Kg | <u>D</u> | Prepared | Analyzed 11/22/22 10:43 | Dil Fac |
| | <50.0 | U | 50.0 | | <u>D</u> | Prepared | | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | <u>D</u> | Prepared Prepared | | 1 |
| Total TPH Method: SW846 8015B NM - Die | <50.0 | nics (DRO) Qualifier | RL 50.0 | mg/Kg | - | <u> </u> | 11/22/22 10:43 | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics | <50.0 sel Range Orga Result | Unics (DRO) Qualifier U | RL | mg/Kg | - | Prepared | 11/22/22 10:43 Analyzed | Dil Fac |
| Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <50.0 sel Range Orga Result <50.0 | nics (DRO) Qualifier U | (GC) RL 50.0 | mg/Kg Unit mg/Kg | - | Prepared 11/18/22 13:39 | 11/22/22 10:43 Analyzed 11/21/22 21:40 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <50.0 sel Range Orga Result <50.0 <50.0 | Dics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | - | Prepared 11/18/22 13:39 11/18/22 13:39 | 11/22/22 10:43 Analyzed 11/21/22 21:40 11/21/22 21:40 | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | <50.0 sel Range Orga Result <50.0 <50.0 <50.0 | Dics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | - | Prepared 11/18/22 13:39 11/18/22 13:39 11/18/22 13:39 | Analyzed 11/21/22 21:40 11/21/22 21:40 11/21/22 21:40 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery | Dics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i> | mg/Kg Unit mg/Kg mg/Kg | - | Prepared 11/18/22 13:39 11/18/22 13:39 11/18/22 13:39 Prepared | Analyzed 11/21/22 21:40 11/21/22 21:40 11/21/22 21:40 Analyzed | Dil Fac |
| Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 91 86 | Onics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | - | Prepared 11/18/22 13:39 11/18/22 13:39 11/18/22 13:39 Prepared 11/18/22 13:39 | Analyzed 11/21/22 21:40 11/21/22 21:40 Analyzed 11/21/22 21:40 Analyzed 11/21/22 21:40 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 91 86 s, Ion Chromato | Onics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | - | Prepared 11/18/22 13:39 11/18/22 13:39 11/18/22 13:39 Prepared 11/18/22 13:39 | Analyzed 11/21/22 21:40 11/21/22 21:40 Analyzed 11/21/22 21:40 Analyzed 11/21/22 21:40 | · |

Client Sample ID: SS02 Lab Sample ID: 890-3472-2

Date Collected: 11/14/22 12:50 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/22/22 15:18 | 11/24/22 13:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 13:53 | |

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Matrix: Solid

2

2

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12

Job ID: 890-3472-1

Client: Ensolum SDG: 03E1558140 Project/Site: JRU D12 CTB

Client Sample ID: SS02 Lab Sample ID: 890-3472-2

Date Collected: 11/14/22 12:50 **Matrix: Solid** Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| Method: SW846 8021B - Vo | /olatile Organic Compounds | (GC) (Continued) |
|--------------------------|----------------------------|------------------|
|--------------------------|----------------------------|------------------|

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 109 | 70 - 130 | 11/22/22 15:18 | 11/24/22 13:53 | |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 11 | 0.00402 | ma/Ka | | | 11/28/22 15:35 | 1 |

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

| Analyte | Result Qua | alifier RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|------------|------------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 U | 49.9 | mg/Kg | | | 11/22/22 10:43 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 11/18/22 13:39 | 11/21/22 22:44 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 11/18/22 13:39 | 11/21/22 22:44 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/18/22 13:39 | 11/21/22 22:44 | 1 |
| | | | | | | | | |
| Currente | 0/ Danassame | Ouglities. | l imaida | | | Duamanad | Amalumad | D:/ Faa |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | 70 - 130 | 11/18/22 13:39 | 11/21/22 22:44 | 1 |
| o-Terphenyl | 92 | 70 - 130 | 11/18/22 13:39 | 11/21/22 22:44 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|---------------|----------|----------------|---------|
| Chloride | 307 | | 4.97 | mg/K | _ | | 11/22/22 04:01 | 1 |

Lab Sample ID: 890-3472-3 **Client Sample ID: SS03**

Date Collected: 11/14/22 12:55 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| ı | Method: SW846 8021B | Valatila Ossasia | O = (OO) |
|---|---------------------|------------------|----------|
| | | | |
| | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
| | | | | | | | | |

| 4-Bromofluorobenzene (Surr) | 85 | 70 - 130 | 11/22/22 15:18 | 11/24/22 14:13 | 1 |
|-----------------------------|-----|----------|----------------|----------------|---|
| 1,4-Difluorobenzene (Surr) | 108 | 70 - 130 | 11/22/22 15:18 | 11/24/22 14:13 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | _ | 11/28/22 15:35 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/22/22 10:43 | 1 |

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Matrix: Solid

Job ID: 890-3472-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: SS03 Lab Sample ID: 890-3472-3

Date Collected: 11/14/22 12:55 Matrix: Solid Date Received: 11/15/22 13:31

Sample Depth: 0.5'

Client: Ensolum

| Method: SW846 8015B NM - Dies | sel Range Orga | nics (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 | | 11/18/22 13:39 | 11/21/22 23:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/18/22 13:39 | 11/21/22 23:06 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/18/22 13:39 | 11/21/22 23:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 11/18/22 13:39 | 11/21/22 23:06 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | | | 11/18/22 13:39 | 11/21/22 23:06 | 1 |
| Method: MCAWW 300.0 - Anions | , Ion Chromato | ography - S | oluble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1380 | | 25.0 | mg/Kg | | | 11/22/22 04:18 | 5 |

Client Sample ID: SS04 Lab Sample ID: 890-3472-4 Matrix: Solid

Date Collected: 11/14/22 13:30 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 11/22/22 15:18 | 11/24/22 14:34 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 11/28/22 15:35 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/22/22 10:43 | 1 |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (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 | | 11/18/22 13:39 | 11/21/22 23:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/18/22 13:39 | 11/21/22 23:27 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/18/22 13:39 | 11/21/22 23:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 11/18/22 13:39 | 11/21/22 23:27 | 1 |
| | | | | | | | | |

Client Sample Results

 Client: Ensolum
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: SS04

Date Collected: 11/14/22 13:30

Lab Sample ID: 890-3472-4

Matrix: Solid

Date Collected: 11/14/22 13:30 Date Received: 11/15/22 13:31

Sample Depth: 0.5'

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | |
|--|----------|------------------|------|-------|---|----------|----------------|---------|
| | Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 900 | 4.98 | mg/Kg | | | 11/22/22 04:23 | 1 |

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12

Surrogate Summary

Job ID: 890-3472-1 Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| b Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 0-3466-A-1-C MS | Matrix Spike | 97 | 104 | |
| 0-3466-A-1-D MSD | Matrix Spike Duplicate | 97 | 105 | |
| 0-3472-1 | SS01 | 87 | 114 | |
| 0-3472-2 | SS02 | 88 | 109 | |
| 0-3472-3 | SS03 | 85 | 108 | |
| 0-3472-4 | SS04 | 97 | 109 | |
| S 880-40226/1-A | Lab Control Sample | 91 | 107 | |
| SD 880-40226/2-A | Lab Control Sample Dup | 90 | 102 | |
| 3 880-39927/5-A | Method Blank | 77 | 102 | |
| 3 880-40226/5-A | Method Blank | 77 | 103 | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits |
|------------------|------------------------|----------|----------|---|
| | | 1CO1 | OTPH1 | |
| Sample ID | Client Sample ID | (70-130) | (70-130) | |
| -3472-1 | SS01 | 91 | 86 | |
| -3472-1 MS | SS01 | 94 | 83 | |
| -3472-1 MSD | SS01 | 112 | 84 | |
| -3472-2 | SS02 | 97 | 92 | |
| -3472-3 | SS03 | 112 | 104 | |
| -3472-4 | SS04 | 112 | 106 | |
| 8 880-39929/2-A | Lab Control Sample | 119 | 108 | |
| SD 880-39929/3-A | Lab Control Sample Dup | 109 | 99 | |
| 880-39929/1-A | Method Blank | 133 S1+ | 140 S1+ | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3472-1

SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39927/5-A

Matrix: Solid

Matrix: Solid

Client: Ensolum

Analysis Batch: 40266

Project/Site: JRU D12 CTB

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39927

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/18/22 12:52 | 11/24/22 00:48 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery Qua | lifier Limits |
|-----------------------------|---------------|---------------|
| 4-Bromofluorobenzene (Surr) | 77 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | 70 - 130 |

Prepared Dil Fac Analyzed 11/18/22 12:52 11/24/22 00:48 11/18/22 12:52 11/24/22 00:48

Lab Sample ID: MB 880-40226/5-A Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 40266 Prep Batch: 40226

| | INID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| | | | | | | | | |

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| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/22/22 15:18 | 11/24/22 12:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 11/22/22 15:18 | 11/24/22 12:23 | 1 |

Lab Sample ID: LCS 880-40226/1-A

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40226

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.08641 | | mg/Kg | | 86 | 70 - 130 | |
| Toluene | 0.100 | 0.09417 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09022 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1641 | | mg/Kg | | 82 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08127 | | mg/Kg | | 81 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery Qualifi | er Limits |
|-----------------------------|-------------------|-----------|
| 4-Bromofluorobenzene (Surr) | 91 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | 70 - 130 |

Lab Sample ID: LCSD 880-40226/2-A

Matrix: Solid

Analysis Batch: 40266

| Client Sample ID: Lab | Control Sample Dup |
|-----------------------|---------------------|
| | Prep Type: Total/NA |

Prep Batch: 40226

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.09015 | | mg/Kg | | 90 | 70 - 130 | 4 | 35 |

Client: Ensolum Job ID: 890-3472-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

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

Lab Sample ID: LCSD 880-40226/2-A **Matrix: Solid**

Analysis Batch: 40266

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 40226

| - | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | 0.100 | 0.09944 | | mg/Kg | | 99 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.09342 | | mg/Kg | | 93 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1688 | | mg/Kg | | 84 | 70 - 130 | 3 | 35 |
| o-Xylene | 0.100 | 0.08416 | | mg/Kg | | 84 | 70 - 130 | 3 | 35 |
| | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 90 | | 70 _ 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: 890-3466-A-1-C MS

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40226

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00202 | U | 0.101 | 0.07375 | | mg/Kg | _ | 73 | 70 - 130 | |
| Toluene | <0.00202 | U F1 | 0.101 | 0.06939 | F1 | mg/Kg | | 69 | 70 - 130 | |
| Ethylbenzene | <0.00202 | U F1 | 0.101 | 0.06488 | F1 | mg/Kg | | 64 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.202 | 0.1175 | F1 | mg/Kg | | 58 | 70 - 130 | |
| o-Xylene | <0.00202 | U F1 | 0.101 | 0.06822 | F1 | mg/Kg | | 67 | 70 - 130 | |
| | | | | | | | | | | |

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | 70 - 130 |

Lab Sample ID: 890-3466-A-1-D MSD

Matrix: Solid

Analysis Batch: 40266

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 40226

| 7 miany 010 = accom 10=00 | | | | | | | | | | | |
|--|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00202 | U | 0.0994 | 0.07664 | | mg/Kg | | 77 | 70 - 130 | 4 | 35 |
| Toluene | <0.00202 | U F1 | 0.0994 | 0.06568 | F1 | mg/Kg | | 66 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0994 | 0.06133 | F1 | mg/Kg | | 62 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.199 | 0.1139 | F1 | mg/Kg | | 57 | 70 - 130 | 3 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0994 | 0.07168 | | mg/Kg | | 72 | 70 - 130 | 5 | 35 |
| The state of the s | | | | | | | | | | | |

MSD MSD

| Surrogate | 76Recovery | Qualifier | LIIIIII |
|-----------------------------|------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

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

Lab Sample ID: MB 880-39929/1-A

Matrix: Solid

Analysis Batch: 40028

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

Prep Batch: 39929

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 11/18/22 13:39 11/21/22 20:36 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum Project/Site: JRU D12 CTB

Job ID: 890-3472-1 SDG: 03E1558140

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

Lab Sample ID: MB 880-39929/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-39929/2-A

Matrix: Solid

Analysis Batch: 40028

Analysis Batch: 40028

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 39929

| | IVID | IVID | | | | | | |
|-----------------------------------|----------|-----------|----------|----------|----------|----------------|----------------|----------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 11/18/22 13:39 | 11/21/22 20:36 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/18/22 13:39 | 11/21/22 20:36 | 1 |
| | C10-C28) | C10-C28) | C10-C28) | C10-C28) | C10-C28) | C10-C28) | C10-C28) | C10-C28) |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | 11/18/22 13:39 | 11/21/22 20:36 | 1 |
| o-Terphenyl | 140 | S1+ | 70 - 130 | 11/18/22 13:39 | 11/21/22 20:36 | 1 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39929

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 1006 | | mg/Kg | | 101 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 998.1 | | mg/Kg | | 100 | 70 - 130 | |
| C10-C28) | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 119 | | 70 - 130 |
| o-Terphenyl | 108 | | 70 - 130 |

Lab Sample ID: LCSD 880-39929/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 40028

Prep Type: Total/NA Prep Batch: 39929

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics | 1000 | 976.6 | | mg/Kg | | 98 | 70 - 130 | 3 | 20 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 907.0 | | mg/Kg | | 91 | 70 - 130 | 10 | 20 | |
| C10-C28) | | | | | | | | | | |

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 109 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: 890-3472-1 MS Client Sample ID: SS01

Matrix: Solid

Analysis Batch: 40028

Prep Type: Total/NA Prep Batch: 39929

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 996.2 | | mg/Kg | | 98 | 70 - 130 | |
| Diesel Range Organics (Over | <50.0 | U | 999 | 1106 | | mg/Kg | | 111 | 70 - 130 | |

C10-C28)

| | IVIS | IVIS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 94 | | 70 - 130 |
| o-Terphenyl | 83 | | 70 - 130 |

Client: Ensolum Job ID: 890-3472-1 Project/Site: JRU D12 CTB SDG: 03E1558140

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

MSD MSD

Lab Sample ID: 890-3472-1 MSD Client Sample ID: SS01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 40028 Prep Batch: 39929

| _ | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | <50.0 | U | 997 | 1056 | | mg/Kg | | 104 | 70 - 130 | 6 | 20 |
| (GRO)-C6-C10 | | | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 997 | 1133 | | mg/Kg | | 114 | 70 - 130 | 2 | 20 |
| | | | | | | | | | | | |

C10-C28)

| | 11102 | | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 112 | | 70 - 130 |
| o-Terphenyl | 84 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39831/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | MB | MB | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/22/22 03:10 | 1 |

Lab Sample ID: LCS 880-39831/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40150

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 255.5 | - | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-39831/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 256.9 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 890-3464-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40150

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 331 | | 251 | 576.6 | | ma/Ka | | 98 | 90 - 110 | |

Lab Sample ID: 890-3464-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40150

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 331 | | 251 | 576.9 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

QC Association Summary

Client: Ensolum

Job ID: 890-3472-1 Project/Site: JRU D12 CTB SDG: 03E1558140

GC VOA

Prep Batch: 39927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 40226

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3472-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-3472-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-3472-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-3472-4 | SS04 | Total/NA | Solid | 5035 | |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3466-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3466-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 40266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3472-1 | SS01 | Total/NA | Solid | 8021B | 40226 |
| 890-3472-2 | SS02 | Total/NA | Solid | 8021B | 40226 |
| 890-3472-3 | SS03 | Total/NA | Solid | 8021B | 40226 |
| 890-3472-4 | SS04 | Total/NA | Solid | 8021B | 40226 |
| MB 880-39927/5-A | Method Blank | Total/NA | Solid | 8021B | 39927 |
| MB 880-40226/5-A | Method Blank | Total/NA | Solid | 8021B | 40226 |
| LCS 880-40226/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40226 |
| LCSD 880-40226/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40226 |
| 890-3466-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 40226 |
| 890-3466-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 40226 |

Analysis Batch: 40492

| Lab Sample ID 890-3472-1 | Client Sample ID SS01 | Prep Type Total/NA | Matrix Solid | Method Prep Batc Total BTEX | <u>h</u> |
|------------------------------------|-----------------------|--------------------|-----------------|-----------------------------|----------|
| 890-3472-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-3472-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-3472-4 | SS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 39929

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3472-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-3472-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-3472-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-3472-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-39929/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-39929/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-39929/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3472-1 MS | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-3472-1 MSD | SS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 40028

| \vdash | | | | | |
|---------------|------------------|-----------|--------|----------|------------|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 890-3472-1 | SS01 | Total/NA | Solid | 8015B NM | 39929 |

QC Association Summary

 Client: Ensolum
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

GC Semi VOA (Continued)

Analysis Batch: 40028 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3472-2 | SS02 | Total/NA | Solid | 8015B NM | 39929 |
| 890-3472-3 | SS03 | Total/NA | Solid | 8015B NM | 39929 |
| 890-3472-4 | SS04 | Total/NA | Solid | 8015B NM | 39929 |
| MB 880-39929/1-A | Method Blank | Total/NA | Solid | 8015B NM | 39929 |
| LCS 880-39929/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 39929 |
| LCSD 880-39929/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 39929 |
| 890-3472-1 MS | SS01 | Total/NA | Solid | 8015B NM | 39929 |
| 890-3472-1 MSD | SS01 | Total/NA | Solid | 8015B NM | 39929 |

Analysis Batch: 40201

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3472-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-3472-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-3472-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-3472-4 | SS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 39831

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3472-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-3472-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-3472-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-3472-4 | SS04 | Soluble | Solid | DI Leach | |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 40150

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3472-1 | SS01 | Soluble | Solid | 300.0 | 39831 |
| 890-3472-2 | SS02 | Soluble | Solid | 300.0 | 39831 |
| 890-3472-3 | SS03 | Soluble | Solid | 300.0 | 39831 |
| 890-3472-4 | SS04 | Soluble | Solid | 300.0 | 39831 |
| MB 880-39831/1-A | Method Blank | Soluble | Solid | 300.0 | 39831 |
| LCS 880-39831/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 39831 |
| LCSD 880-39831/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 39831 |
| 890-3464-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 39831 |

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Client: Ensolum Job ID: 890-3472-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: SS01 Lab Sample ID: 890-3472-1

Matrix: Solid

Date Collected: 11/14/22 12:45 Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 13:32 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40492 | 11/28/22 15:35 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40201 | 11/22/22 10:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 39929 | 11/18/22 13:39 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40028 | 11/21/22 21:40 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 39831 | 11/17/22 14:43 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 03:55 | CH | EET MID |

Client Sample ID: SS02 Lab Sample ID: 890-3472-2

Date Collected: 11/14/22 12:50 Matrix: Solid

Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MIC |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 13:53 | MNR | EET MIC |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40492 | 11/28/22 15:35 | AJ | EET MIC |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40201 | 11/22/22 10:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 39929 | 11/18/22 13:39 | DM | EET MIC |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40028 | 11/21/22 22:44 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 39831 | 11/17/22 14:43 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 04:01 | CH | EET MI |

Client Sample ID: SS03 Lab Sample ID: 890-3472-3

Date Collected: 11/14/22 12:55 Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 14:13 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40492 | 11/28/22 15:35 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40201 | 11/22/22 10:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 39929 | 11/18/22 13:39 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40028 | 11/21/22 23:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 39831 | 11/17/22 14:43 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 40150 | 11/22/22 04:18 | CH | EET MID |

Client Sample ID: SS04 Lab Sample ID: 890-3472-4

Date Collected: 11/14/22 13:30 **Matrix: Solid** Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 40226 | 11/22/22 15:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/24/22 14:34 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40492 | 11/28/22 15:35 | AJ | EET MID |

Matrix: Solid

 Client: Ensolum
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: SS04 Lab Sample ID: 890-3472-4

Date Collected: 11/14/22 13:30 Matrix: Solid
Date Received: 11/15/22 13:31

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40201 | 11/22/22 10:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 39929 | 11/18/22 13:39 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40028 | 11/21/22 23:27 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 39831 | 11/17/22 14:43 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40150 | 11/22/22 04:23 | 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
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|------------------------|--------------------------------|-----------------------------------|---|-----------------------------|
| Texas | NE | ELAP | T104704400-22-24 | 06-30-23 |
| The following analytes | are included in this report by | it the laboratory is not certific | ed by the governing authority. This list ma | av include analytes for y |
| the agency does not of | | at the laboratory is not certific | ed by the governing additionty. This list the | ay ilicidde allaiytes for t |
| 0 , | | Matrix | Analyte | ay include analytes for t |
| the agency does not of | fer certification. | • | , , , | ay include analytes for t |

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Method Summary

 Client: Ensolum
 Job ID: 890-3472-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

| 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

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Sample Summary

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 890-3472-1

SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3472-1 | SS01 | Solid | 11/14/22 12:45 | 11/15/22 13:31 | 0.5' |
| 890-3472-2 | SS02 | Solid | 11/14/22 12:50 | 11/15/22 13:31 | 0.5' |
| 890-3472-3 | SS03 | Solid | 11/14/22 12:55 | 11/15/22 13:31 | 0.5' |
| 890-3472-4 | SS04 | Solid | 11/14/22 13:30 | 11/15/22 13:31 | 0.5' |

eurofins Xenco **Environment Testing**

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

| | | | 0 | | | | |
|---|--|---|---|--|---|--|---|
| | | | | | | | |
| | | 31 | 1522133 | 1. | we Cad | | mas |
| Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | | Received by: (Signature) | gnature) | Relinquished by: (Signature) |
| | nd conditions d the control eviously negotiated. | 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. | ofins Xenco, its affiliates and suses incurred by the client if suurofins Xenco, but not analyz | m client company to Euro ty for any losses or exper ch sample submitted to E | ples constitutes a valid purchase order fro nples and shall not assume any responsibil d to each project and a charge of \$5 for ea | nt and relinquishment of sam, liable only for the cost of sam harge of \$85.00 will be applied | e: Signature of this docume vice. Eurofins Xenco will be rofins Xenco. A minimum ci |
| 174: | | Cd Cr Co Cu Pb Mn Mo Ni Se | Sb As Ba Be Cd Cr | TCLP / SPLP 6010 : 8RCRA S | alyzed TCLP/SPLP | Circle Method(s) and Metal(s) to be analyzed | rcle Method(s) and |
| U V Zn | Mn Mo Ni K Se Ad SiO, Na Sr Tl Sn U V | Cr Co Cii Fe Ph Ma | Al Sh As Ra Re R Cd Ca | 13PPM Texas 11 Al Sh | ABCBA 13DDM | 2009 / 6020: | 24-1 200 7 / 6010 |
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| Cost Center: | Ce | | + + + | + | | + | 5504 |
| | | | | | 1255 | | 5503 |
| MAPP2227351943 | nA. | | | | 1250 | | 5502 |
| ncident #: | inc | | X × | 0.5/6 1 | 11/14/22 1245 0 | S | SSO |
| Sample Comments | | | BT TI Ch | Depth Grab/ # of Comp Cont | Date Time Sampled Sampled | ation Matrix | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | | | H | 56 | Corrected Temperature: | (| Total Containers: |
| Zn Acetate+NaOH: Zn | Custody Zn Ace | 890-3472 Chain of | | 2 | Temperature Reading: | Yes No W/A | Sample Custody Seals: |
| Na ₂ S ₂ O ₃ : NaSO ₃ | Na ₂ S ₂ | | ele | 4 | Correction Factor: | Yes No N/A | Cooler Custody Seals: |
| NaHSO 4: NABIS | NaHSC | | | Tram | Thermometer ID: WW | es No | Samples Received Intact: |
| ₄: HP | H ₃ PO ₄ : HP | | | No No | Yes No Wet Ice: | Jemp Blank: | SAMPLE RECEIPT |
| | H ₂ SO ₄ :H ₂ | | | | the lab, if received by 4:30pm | | |
| HC HNO 3: HN | HCL: HC | | | eceived by | かくす | ered the | _ |
| Cool MeOH: Me | Cool: Cool | | | | Due Date: | 0.3E 1558140 | - |
| :: NO DI Water: H ₂ O | None: NO | | | Rush Code | Moutine | 32.36256, -103.83811 | Project Number: 5 |
| Preservative Codes | | ANALYSIS REQUEST | | | CT8 Turn Around | JRW DIZ CI | Project Name: |
| Other: | Deliverables: EDD ADaPT | Cem | morrissey@ensolum | tmorri | 830 7 Email: | 337.357.8 | Phone: |
| T TRRP Level IV | Reporting: Level III Level III PST/UST TRRP | | Carish | City, State ZIP: | 220 | drisbad, A | City, State ZIP: |
| | State of Project: | 3104 E Greene St | Cartyle 31 | Address: | Parks Huny Ada | | |
| ls RRC Superfund | Program: UST/PST PRP Brownfields | | XIC | Company Name: | | 1 | Company Name: |
| nts | Work Order Comments | + Green | Garrett | Bill to: (if different) | Marrissey Bill | Tacoma M | Project Manager: |
| | | | | | | | |

Work Order No:

www.xenco.com

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3472-1 SDG Number: 03E1558140

Login Number: 3472 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3472-1 SDG Number: 03E1558140

> List Source: Eurofins Midland List Creation: 11/17/22 02:07 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3472

| 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 | N/A | |

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/12/2022 2:42:42 PM

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

880-22109-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 12/12/2022 2:42:42 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 8

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Client: Ensolum Project/Site: JRU D12 CTB Laboratory Job ID: 880-22109-1 SDG: 03E1558140

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Definitions/Glossary

Job ID: 880-22109-1 Client: Ensolum Project/Site: JRU D12 CTB

SDG: 03E1558140

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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 Practical Quantitation Limit

PQL **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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 880-22109-1

SDG: 03E1558140

Job ID: 880-22109-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22109-1

Receipt

The samples were received on 11/30/2022 2:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (880-22109-1) and FS02 (880-22109-2). 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: SW02 (880-22109-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41388 and analytical batch 880-41419 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-22110-A-1-D) and (880-22110-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS01 (880-22109-1) and FS02 (880-22109-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: FS04 (880-22109-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Job ID: 880-22109-1

Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: FS01 Lab Sample ID: 880-22109-1

Date Collected: 11/30/22 08:30 Matrix: Solid Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|--|---|---------------------------------|----------|--|---|-----------------------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 133 | S1+ | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 00:54 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 12/12/22 15:15 | 1 |
| Analyte | Populé | Ouglifien | | | | | | |
| | Resuit | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | | 49.9 | Unit mg/Kg | D | Prepared | Analyzed 12/07/22 09:45 | |
| Total TPH | <49.9 | U | 49.9 | | <u>D</u> | Prepared | | |
| Total TPH Method: SW846 8015B NM - Dies | <49.9 | unics (DRO) | 49.9 (GC) | mg/Kg | | | 12/07/22 09:45 | 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte | <49.9 sel Range Orga Result | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | <u>D</u> | Prepared | 12/07/22 09:45 Analyzed | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | <49.9 | nics (DRO) Qualifier | 49.9 (GC) | mg/Kg | | | 12/07/22 09:45 | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte | <49.9 sel Range Orga Result | Unics (DRO) Qualifier | 49.9 (GC) | mg/Kg | | Prepared | 12/07/22 09:45 Analyzed | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | <49.9 sel Range Orga Result <49.9 | Unics (DRO) Qualifier | (GC) RL 49.9 | mg/Kg Unit mg/Kg | | Prepared 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 17:01 | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <49.9 sel Range Orga Result <49.9 | nics (DRO) Qualifier U | (GC) RL 49.9 | mg/Kg Unit mg/Kg | | Prepared 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 17:01 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.9 sel Range Orga Result <49.9 <49.9 | Dinics (DRO) Qualifier U U | 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 17:01 12/06/22 17:01 | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 | Oualifier U | 49.9 (GC) RL 49.9 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 17:01 12/06/22 17:01 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 143 | Unics (DRO) Qualifier U U Qualifier | 49.9 (GC) RL 49.9 49.9 49.9 Limits | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared | 12/07/22 09:45 Analyzed 12/06/22 17:01 12/06/22 17:01 12/06/22 17:01 Analyzed | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | <49.9 sel Range Orga Result <49.9 <49.9 <49.9 *49.9 *Recovery 143 135 | U nics (DRO) Qualifier U U Qualifier S1+ S1+ | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32 | Analyzed 12/06/22 17:01 12/06/22 17:01 12/06/22 17:01 Analyzed 12/06/22 17:01 | 1 Dil Fac 1 1 1 Dil Fac 1 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 143 135 s, Ion Chromato | U nics (DRO) Qualifier U U Qualifier S1+ S1+ | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32 | Analyzed 12/06/22 17:01 12/06/22 17:01 12/06/22 17:01 Analyzed 12/06/22 17:01 | |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions | sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 143 135 s, Ion Chromato | Oualifier U Qualifier U Qualifier S1+ S1+ Ography - Se | 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 coluble | mg/Kg Unit mg/Kg mg/Kg mg/Kg | <u>D</u> | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32 12/05/22 11:32 | Analyzed 12/06/22 17:01 12/06/22 17:01 12/06/22 17:01 Analyzed 12/06/22 17:01 12/06/22 17:01 | Dil Fac |

Client Sample ID: FS02 Lab Sample ID: 880-22109-2 Date Collected: 11/30/22 11:05 **Matrix: Solid**

Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 47 | S1- | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:15 | 1 |

Client: Ensolum

Job ID: 880-22109-1

SDG: 03E1558140

Lab Sample ID: 880-22109-2

Matrix: Solid

Matrix: Solid

Date Collected: 11/30/22 11:05 Date Received: 11/30/22 14:12

Project/Site: JRU D12 CTB

Client Sample ID: FS02

| _ Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
|-------------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/12/22 15:15 | 1 |
| - Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/07/22 09:45 | 1 |
| _ Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 17:23 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 17:23 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 17:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 159 | S1+ | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 17:23 | 1 |
| o-Terphenyl | 148 | S1+ | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 17:23 | 1 |
| _ Method: MCAWW 300.0 - Anions | Ion Chromato | ography - S | oluble | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 168 | | 5.02 | mg/Kg | | | 12/03/22 18:05 | 1 |

Client Sample ID: FS03 Lab Sample ID: 880-22109-3

Date Collected: 11/29/22 14:25

Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|--|---------------------------|--------------------|----------|--------------------------|--|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:35 | 1 |
| | | | | | | | 12/10/22 01:35 | |
| 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte | | culation Qualifier | 70 ₋ 130 RL | Unit | D | 12/08/22 15:31 Prepared | 12/10/22 01:35 | |
| | | culation | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:35 | 7 |
| Method: TAL SOP Total BTEX | - Total BTEX Cald | Qualifier | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: TAL SOP Total BTEX Analyte | - Total BTEX Calc Result <0.00398 | Qualifier U | RL 0.00398 | | <u>D</u> | | Analyzed | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX | - Total BTEX Calc Result <0.00398 esel Range Organ | Qualifier U | RL 0.00398 | | <u>D</u> | | Analyzed | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did | - Total BTEX Calc Result <0.00398 esel Range Organ | Qualifier U ics (DRO) (Qualifier | RL 0.00398 | mg/Kg | | Prepared | Analyzed 12/12/22 15:15 | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte | - Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 | Qualifier U ics (DRO) (Qualifier U | RL 0.00398 GC) RL 50.0 | mg/Kg | | Prepared | Analyzed 12/12/22 15:15 Analyzed | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH | - Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga | Qualifier U ics (DRO) (Qualifier U | RL 0.00398 GC) RL 50.0 | mg/Kg | | Prepared | Analyzed 12/12/22 15:15 Analyzed | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Method: S | - Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga | Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier | RL 0.00398 GC) RL 50.0 | mg/Kg Unit mg/Kg | <u>D</u> | Prepared Prepared | Analyzed 12/12/22 15:15 Analyzed 12/07/22 09:45 | Dil Fac |

Job ID: 880-22109-1

Client: Ensolum Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: FS03 Lab Sample ID: 880-22109-3

Date Collected: 11/29/22 14:25 Matrix: Solid Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 17:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 119 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 17:46 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 17:46 | 1 |

| Method: MCAVVV 300.0 - Anions, i | on Chromatography - Soi | ubie | | | | | |
|----------------------------------|-------------------------|------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 267 | 4.97 | mg/Kg | | | 12/04/22 12:32 | 1 |

Client Sample ID: FS04 Lab Sample ID: 880-22109-4 Date Collected: 11/30/22 11:25 Matrix: Solid

Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|--|---|---|--|---------------------------|----------|--|--|--------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| o-Xylene | 0.00268 | | 0.00198 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/08/22 15:31 | 12/10/22 01:56 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:56 | |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 01:56 | |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | ulation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 12/12/22 15:15 | |
| | | | • | | _ | | | D.: E |
| Method: SW846 8015 NM - Diese Analyte | Result | Qualifier | GC) | Unit | <u>D</u> | Prepared | Analyzed | Dil Fa |
| | | Qualifier | • | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 12/07/22 09:45 | |
| Analyte | Result < 50.0 | Qualifier U | RL 50.0 | | <u>D</u> | Prepared | | |
| Analyte Total TPH | Result <50.0 | Qualifier U | RL 50.0 | | <u>D</u> | Prepared Prepared | | |
| Analyte Total TPH Method: SW846 8015B NM - Dies | Result <50.0 | Qualifier Unics (DRO) Qualifier | RL 50.0 | mg/Kg | | | 12/07/22 09:45 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) | mg/Kg | | Prepared | 12/07/22 09:45 Analyzed | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U | RL 50.0 (GC) RL 50.0 | mg/Kg Unit mg/Kg | | Prepared 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 18:08 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 18:08 12/06/22 18:08 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 | Analyzed 12/06/22 18:08 12/06/22 18:08 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result <50.0 | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared | Analyzed 12/06/22 18:08 12/06/22 18:08 12/06/22 18:08 Analyzed | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | Result <50.0 | Qualifier U nics (DRO) Qualifier U U Qualifier S1+ S1+ | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 18:08 12/06/22 18:08 Analyzed 12/06/22 18:08 | Dil Fa |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | Result <50.0 | Qualifier U nics (DRO) Qualifier U U Qualifier S1+ S1+ | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared 12/05/22 11:32 | 12/07/22 09:45 Analyzed 12/06/22 18:08 12/06/22 18:08 Analyzed 12/06/22 18:08 | Dil Fa |

Client: Ensolum Job ID: 880-22109-1

Project/Site: JRU D12 CTB SDG: 03E1558140 **Client Sample ID: SW01** Lab Sample ID: 880-22109-5

Date Collected: 11/30/22 11:30 Matrix: Solid Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|----------------------------|---------------------------|--------------|------------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| Toluene | < 0.00201 | U | 0.00201 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| o-Xylene | < 0.00201 | U | 0.00201 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 03:19 | |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 03:19 | 1 |
| - Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/12/22 15:15 | |
| Analyte Total TPH | | Qualifier | RL | Unit ma/Ka | D | Prepared | Analyzed | Dil Fac |
| Total TPH | Kesuit <49.9 | | 49.9 | <u></u> | | | 12/07/22 09:45 | DII Fac |
| Mathada CMO4C 0045D NM Disa | D O | mine (DDO) | (00) | | | | | |
| Method: SW846 8015B NM - Dies Analyte | | Qualifier | (GC) | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | Kesuit | | 49.9 | | | 12/05/22 11:32 | 12/06/22 18:29 | Dii Fac |
| (GRO)-C6-C10 | \49.9 | U | 49.9 | mg/Kg | | 12/03/22 11.32 | 12/00/22 16.29 | 1 |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 18:29 | 1 |
| C10-C28) | | | | 0 0 | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 18:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 18:29 | 1 |
| o-Terphenyl | 98 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 18:29 | 1 |
| | | | | | | | | |
| Method: MCAWW 300.0 - Anions | , Ion Chromato | graphy - So | oluble | | | | | |
| Method: MCAWW 300.0 - Anions Analyte | | ography - So Qualifier | oluble RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: SW02 Lab Sample ID: 880-22109-6 Date Collected: 11/30/22 11:40 Matrix: Solid

Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 134 | S1+ | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |
| 1.4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | 12/08/22 15:31 | 12/10/22 03:39 | 1 |

Client Sample Results

 Client: Ensolum
 Job ID: 880-22109-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: SW02 Lab Sample ID: 880-22109-6

. Matrix: Solid

12/03/22 18:29

Date Collected: 11/30/22 11:40
Date Received: 11/30/22 14:12

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 12/12/22 15:15 | 1 |
| Method: SW846 8015 NM - Diesel | Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/07/22 09:45 | 1 |
| Method: SW846 8015B NM - Diese | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 18:51 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 18:51 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 18:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 121 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 18:51 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 18:51 | 1 |
| Method: MCAWW 300.0 - Anions, | Ion Chromato | graphy - So | oluble | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

5.02

mg/Kg

153

Chloride

2

Δ

6

9

11

Surrogate Summary

Client: Ensolum Job ID: 880-22109-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|------------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-22109-1 | FS01 | 133 S1+ | 96 | |
| 880-22109-2 | FS02 | 47 S1- | 83 | |
| 880-22109-3 | FS03 | 126 | 94 | |
| 880-22109-4 | FS04 | 120 | 87 | |
| 880-22109-5 | SW01 | 102 | 77 | |
| 880-22109-6 | SW02 | 134 S1+ | 98 | |
| 890-3574-A-1-G MS | Matrix Spike | 124 | 84 | |
| 890-3574-A-1-H MSD | Matrix Spike Duplicate | 116 | 92 | |
| LCS 880-41388/1-A | Lab Control Sample | 105 | 90 | |
| LCSD 880-41388/2-A | Lab Control Sample Dup | 108 | 90 | |
| MB 880-40824/5-A | Method Blank | 102 | 88 | |
| MB 880-41388/5-A | Method Blank | 107 | 85 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluorobe | nzene (Surr) | | <u> </u> | |
| DFBZ = 1,4-Difluoroben | zene (Surr) | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Lin |
|------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| ab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 0-22109-1 | FS01 | 143 S1+ | 135 S1+ | |
| 0-22109-2 | FS02 | 159 S1+ | 148 S1+ | |
| 0-22109-3 | FS03 | 119 | 114 | |
| 0-22109-4 | FS04 | 137 S1+ | 131 S1+ | |
| 0-22109-5 | SW01 | 102 | 98 | |
| 0-22109-6 | SW02 | 121 | 116 | |
| -22110-A-1-E MS | Matrix Spike | 142 S1+ | 112 | |
| -22110-A-1-F MSD | Matrix Spike Duplicate | 120 | 99 | |
| S 880-41024/2-A | Lab Control Sample | 129 | 120 | |
| SD 880-41024/3-A | Lab Control Sample Dup | 129 | 117 | |
| B 880-41024/1-A | Method Blank | 130 | 127 | |

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 880-22109-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40824/5-A

Analysis Batch: 41419

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40824

1

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/22 15:55 | 12/09/22 11:49 | |
| | | | | | | | | |

мв мв

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | 12/01/22 15:55 | 12/09/22 11:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 12/01/22 15:55 | 12/09/22 11:49 | 1 |

Lab Sample ID: MB 880-41388/5-A

Matrix: Solid

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

Prep Batch: 41388

Analysis Batch: 41419

| | INID | MD | | | | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|--|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/08/22 15:31 | 12/09/22 22:28 | 1 | | | |
| | | | | | | | | | | | |

мв мв

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | 12/08/22 15:31 | 12/09/22 22:28 | 1 |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | 12/08/22 15:31 | 12/09/22 22:28 | 1 |

Lab Sample ID: LCS 880-41388/1-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 41388

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09419 | | mg/Kg | | 94 | 70 - 130 | |
| Toluene | 0.100 | 0.09374 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09567 | | mg/Kg | | 96 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2095 | | mg/Kg | | 105 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1041 | | mg/Kg | | 104 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery Qualifi | ier Limits |
|-----------------------------|-------------------|------------|
| 4-Bromofluorobenzene (Surr) | 105 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 90 | 70 - 130 |

Lab Sample ID: LCSD 880-41388/2-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 41388

| | Бріке | LCSD LCSD | | | | %Rec | | RPD | |
|---------|--------------|------------------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.09887 | mg/Kg | | 99 | 70 - 130 | 5 | 35 | |

o-Xylene

Client: Ensolum Job ID: 880-22109-1 Project/Site: JRU D12 CTB SDG: 03E1558140

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

Lab Sample ID: LCSD 880-41388/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 41419** Prep Batch: 41388 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09599 96 70 - 130 35 mg/Kg 2 Ethylbenzene 0.100 0.09558 mg/Kg 96 70 - 130 0 35 0.200 0.2089 70 - 130 m-Xylene & p-Xylene mg/Kg 104 35 0

0.1045

mg/Kg

105

70 - 130

0.100

| | LCSD | LCSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 |

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

Lab Sample ID: MB 880-41024/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 41104** Prep Batch: 41024 MD MD

| | IVID | IVID | | | | | | |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |

| | MB | MB | | | | |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 130 | | 70 - 130 | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | 12/05/22 11:32 | 12/06/22 08:55 | 1 |

Lab Sample ID: LCS 880-41024/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA

Analysis Batch: 41104 Prep Batch: 41024 Spike LCS LCS

| Analyte | Added | Result Qualific | er Unit | D | %Rec | Limits | |
|-----------------------------|-------|-----------------|---------|---|------|----------|--|
| Gasoline Range Organics | 1000 | 840.2 | mg/Kg | | 84 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | |
| Diesel Range Organics (Over | 1000 | 897.2 | mg/Kg | | 90 | 70 - 130 | |
| C10-C28) | | | | | | | |
| | | | | | | | |

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 129 | | 70 - 130 |
| o-Terphenvl | 120 | | 70 - 130 |

Lab Sample ID: LCSD 880-41024/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA

Analysis Batch: 41104 Prep Batch: 41024 LCSD LCSD Spike %Rec RPD Added Result Qualifier Unit %Rec Limits RPD Limit 1000 836.2 84 70 - 130 0 20 Gasoline Range Organics mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over 1000 886.7 mg/Kg 89 70 - 130 20 C10-C28)

Eurofins Midland

Job ID: 880-22109-1

SDG: 03E1558140

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

Lab Sample ID: LCSD 880-41024/3-A **Matrix: Solid**

Analysis Batch: 41104

Project/Site: JRU D12 CTB

Client: Ensolum

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 41024

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 129 70 - 130 o-Terphenyl 117 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40834/1-A

Matrix: Solid

Analysis Batch: 40952

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 12/04/22 11:43

LCS LCS

Lab Sample ID: LCS 880-40834/2-A

Matrix: Solid

Analysis Batch: 40952

Added Qualifier Analyte Result Unit D %Rec Limits Chloride 250 251.9 101 90 - 110 mg/Kg

Spike

Lab Sample ID: LCSD 880-40834/3-A

Matrix: Solid

Analysis Batch: 40952

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 251.8 101 90 - 110 mg/Kg

Lab Sample ID: MB 880-40835/1-A

Matrix: Solid

Analysis Batch: 40953

MB MB

Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 5.00 12/03/22 17:16 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-40835/2-A

Matrix: Solid

Analysis Batch: 40953

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 252.2 101 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-40835/3-A

Released to Imaging: 3/29/2023 4:00:01 PM

Matrix: Solid

Analysis Batch: 40953

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

Eurofins Midland

Client Sample ID: Lab Control Sample

Prep Type: Soluble

QC Sample Results

 Client: Ensolum
 Job ID: 880-22109-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22109-1 MS

Matrix: Solid

Client Sample ID: FS01

Prep Type: Soluble

Analysis Batch: 40953

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 367 | | 1250 | 1697 | | mg/Kg | | 107 | 90 - 110 | |

Lab Sample ID: 880-22109-1 MSD

Matrix: Solid

Client Sample ID: FS01

Prep Type: Soluble

Analysis Batch: 40953

Sample Sample Spike MSD MSD %Rec RPD Limit Analyte Result Qualifier Added Result Qualifier Limits RPD Unit %Rec 1250 Chloride 367 1672 mg/Kg 105 90 - 110 2

Eurofins Midland

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QC Association Summary

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 880-22109-1 SDG: 03E1558140

GC VOA

Prep Batch: 40824

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-40824/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 41388

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | 5035 | |
| 880-22109-2 | FS02 | Total/NA | Solid | 5035 | |
| 880-22109-3 | FS03 | Total/NA | Solid | 5035 | |
| 880-22109-4 | FS04 | Total/NA | Solid | 5035 | |
| 880-22109-5 | SW01 | Total/NA | Solid | 5035 | |
| 880-22109-6 | SW02 | Total/NA | Solid | 5035 | |
| MB 880-41388/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-41388/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-41388/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Analysis Batch: 41419

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | 8021B | 41388 |
| 880-22109-2 | FS02 | Total/NA | Solid | 8021B | 41388 |
| 880-22109-3 | FS03 | Total/NA | Solid | 8021B | 41388 |
| 880-22109-4 | FS04 | Total/NA | Solid | 8021B | 41388 |
| 880-22109-5 | SW01 | Total/NA | Solid | 8021B | 41388 |
| 880-22109-6 | SW02 | Total/NA | Solid | 8021B | 41388 |
| MB 880-40824/5-A | Method Blank | Total/NA | Solid | 8021B | 40824 |
| MB 880-41388/5-A | Method Blank | Total/NA | Solid | 8021B | 41388 |
| LCS 880-41388/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 41388 |
| LCSD 880-41388/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 41388 |

Analysis Batch: 41658

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 880-22109-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 880-22109-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 880-22109-4 | FS04 | Total/NA | Solid | Total BTEX | |
| 880-22109-5 | SW01 | Total/NA | Solid | Total BTEX | |
| 880-22109-6 | SW02 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 41024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 880-22109-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 880-22109-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 880-22109-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 880-22109-5 | SW01 | Total/NA | Solid | 8015NM Prep | |
| 880-22109-6 | SW02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-41024/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-41024/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-41024/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 880-22109-1 SDG: 03E1558140

GC Semi VOA

Analysis Batch: 41104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22109-2 | FS02 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22109-3 | FS03 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22109-4 | FS04 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22109-5 | SW01 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22109-6 | SW02 | Total/NA | Solid | 8015B NM | 41024 |
| MB 880-41024/1-A | Method Blank | Total/NA | Solid | 8015B NM | 41024 |
| LCS 880-41024/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 41024 |
| LCSD 880-41024/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 41024 |

Analysis Batch: 41230

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-22109-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 880-22109-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 880-22109-3 | FS03 | Total/NA | Solid | 8015 NM | |
| 880-22109-4 | FS04 | Total/NA | Solid | 8015 NM | |
| 880-22109-5 | SW01 | Total/NA | Solid | 8015 NM | |
| 880-22109-6 | SW02 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 40834

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|---------------|
| 880-22109-3 | FS03 | Soluble | Solid | DI Leach | - |
| MB 880-40834/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40834/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40834/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Leach Batch: 40835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-22109-1 | FS01 | Soluble | Solid | DI Leach | |
| 880-22109-2 | FS02 | Soluble | Solid | DI Leach | |
| 880-22109-4 | FS04 | Soluble | Solid | DI Leach | |
| 880-22109-5 | SW01 | Soluble | Solid | DI Leach | |
| 880-22109-6 | SW02 | Soluble | Solid | DI Leach | |
| MB 880-40835/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40835/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40835/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-22109-1 MS | FS01 | Soluble | Solid | DI Leach | |
| 880-22109-1 MSD | FS01 | Soluble | Solid | DI Leach | |

Analysis Batch: 40952

| Lab Sample ID 880-22109-3 | Client Sample ID FS03 | Prep Type Soluble | Matrix Solid | Method 300.0 | Prep Batch 40834 |
|-------------------------------------|------------------------|-------------------|-----------------|--------------|------------------|
| MB 880-40834/1-A | Method Blank | Soluble | Solid | 300.0 | 40834 |
| LCS 880-40834/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40834 |
| LCSD 880-40834/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40834 |

Analysis Batch: 40953

| | 011 40 4 10 | Dran Torna | | | |
|---------------|------------------|------------|--------|--------|------------|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 880-22109-1 | FS01 | Soluble | Solid | 300.0 | 40835 |

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QC Association Summary

 Client: Ensolum
 Job ID: 880-22109-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

HPLC/IC (Continued)

Analysis Batch: 40953 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22109-2 | FS02 | Soluble | Solid | 300.0 | 40835 |
| 880-22109-4 | FS04 | Soluble | Solid | 300.0 | 40835 |
| 880-22109-5 | SW01 | Soluble | Solid | 300.0 | 40835 |
| 880-22109-6 | SW02 | Soluble | Solid | 300.0 | 40835 |
| MB 880-40835/1-A | Method Blank | Soluble | Solid | 300.0 | 40835 |
| LCS 880-40835/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40835 |
| LCSD 880-40835/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40835 |
| 880-22109-1 MS | FS01 | Soluble | Solid | 300.0 | 40835 |
| 880-22109-1 MSD | FS01 | Soluble | Solid | 300.0 | 40835 |

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Job ID: 880-22109-1

Client: Ensolum SDG: 03E1558140 Project/Site: JRU D12 CTB

Client Sample ID: FS01 Lab Sample ID: 880-22109-1 Matrix: Solid

Date Collected: 11/30/22 08:30 Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 00:54 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 17:01 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 5 | 40953 | CH | EET MID | 12/03/22 17:40 |

Client Sample ID: FS02 Lab Sample ID: 880-22109-2 Matrix: Solid

Date Collected: 11/30/22 11:05 Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 01:15 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 17:23 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 18:05 |

Client Sample ID: FS03 Lab Sample ID: 880-22109-3 Date Collected: 11/29/22 14:25

Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 01:35 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 17:46 |
| Soluble | Leach | DI Leach | | | 40834 | SMC | EET MID | 12/01/22 17:32 |
| Soluble | Analysis | 300.0 | | 1 | 40952 | CH | EET MID | 12/04/22 12:32 |

Client Sample ID: FS04 Lab Sample ID: 880-22109-4 Date Collected: 11/30/22 11:25 **Matrix: Solid**

Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 01:56 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |

Eurofins Midland

Matrix: Solid

Job ID: 880-22109-1

SDG: 03E1558140

Client Sample ID: FS04

Lab Sample ID: 880-22109-4

Matrix: Solid

Date Collected: 11/30/22 11:25 Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 18:08 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 18:13 |

Lab Sample ID: 880-22109-5

Matrix: Solid

Date Collected: 11/30/22 11:30 Date Received: 11/30/22 14:12

Client Sample ID: SW01

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 03:19 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 18:29 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 18:21 |

Client Sample ID: SW02 Lab Sample ID: 880-22109-6

Date Collected: 11/30/22 11:40 **Matrix: Solid** Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 41388 | MNR | EET MID | 12/08/22 15:31 |
| Total/NA | Analysis | 8021B | | 1 | 41419 | MNR | EET MID | 12/10/22 03:39 |
| Total/NA | Analysis | Total BTEX | | 1 | 41658 | SM | EET MID | 12/12/22 15:15 |
| Total/NA | Analysis | 8015 NM | | 1 | 41230 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 18:51 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 18:29 |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-22109-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority Texas | | ogram | Identification Number | Expiration Date |
|------------------------|----------------------------------|-----------------------------------|--|-------------------------|
| | | ELAP | T104704400-22-24 | 06-30-23 |
| The following analytes | are included in this report, but | it the laboratory is not certific | ed by the governing authority. This list ma | av include analytes fo |
| the agency does not of | • • | it the laboratory is not certific | su by the governing authority. This list his | ay include analytes to |
| , | • • | Matrix | Analyte | ay include analytes to |
| the agency does not of | fer certification. | , | , , , | ay illoude allalytes lo |

Method Summary

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 880-22109-1

SDG: 03E1558140

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| 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: 880-22109-1 Project/Site: JRU D12 CTB SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 880-22109-1 | FS01 | Solid | 11/30/22 08:30 | 11/30/22 14:12 |
| 880-22109-2 | FS02 | Solid | 11/30/22 11:05 | 11/30/22 14:12 |
| 880-22109-3 | FS03 | Solid | 11/29/22 14:25 | 11/30/22 14:12 |
| 880-22109-4 | FS04 | Solid | 11/30/22 11:25 | 11/30/22 14:12 |
| 880-22109-5 | SW01 | Solid | 11/30/22 11:30 | 11/30/22 14:12 |
| 880-22109-6 | SW02 | Solid | 11/30/22 11:40 | 11/30/22 14:12 |

votice: 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 startice. 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 circum Circle Method(s) and Metal(s) to be analyzed SAMPLE RECEIPT Sampler's Name Project Number Phone 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 en samples Received Intact: City State ZIP Total Containers Cooler Custody Seals. ample Custody Seals \ddress: roject Location. ompany Name Total 200.7 / 6010 **eurofins** ງຜູ້uished by (Sjgnature) Sample Identification TV_O F304 FSOS FS02 5W02 Mercalth Roberts 32.36256,703.83810 3122 Nat I BOKS HWY D3E1558140 989.854.0852 Jams bad, NM Jasolum, LLC RU DI2 (TB 200.8 / 6020: Yes No N/A Yes No Bon Belli Temp Blank. Yes No Xenco mvionment Testing N/A Matrix 11/30/22 0830 Correction Factor Received by: (Signature) 113022 W29122 1435 Sampled Corrected Temperature Temperature Reading Thermometer ID Yes Date 88220 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe P' 5411 105 Time Sampled Due Date Moutine TAT starts the day received by the lab, if received by 4.30pm 130 Wet Ice 140 TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn N Email Turn Around Ø 0.2 0.2 1-NM-00-Bill to: (if different) Depth City State ZIP-Company Name Rush N Yes No Comp Grab/ 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 bbehil (Gensowman Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 # of Cont + Pres. Code Parameters Chain of Custody 30/22 2:12 Date/Time 3104 E Greene **(**---Chlondes DISBUM WASTAR teroing orx Correct Gress BTEX X TPH ての Relinquished by Y ANALYSIS REQUEST 880-22109 Chain of Custody **- MAD MO NI K Se Reporting Level III Level III PST/UST TRRP Level IV State of Project Program. Deliverables UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ EDD _ Work Order No: ___ Ag SiO₂ Na Sr Tl Sn U V Zn www.xenco.com Work Order Comments ADaPT [] H₂SO₄ H₂ Na₂S₂O₃ NaSO₃ NaHSO 4 NABIS H₃PO₄ HP 7471 NaOH+Ascorbic Acid SAPC Zn Acetate+NaOH Zn HCL. HC Cool Cool None NO MPP2227351943 mudent #. Ost Center Page__ 1082251001 Sample Comments Preservative Codes Date/Time MeOH Me DI Water: H₂O NaOH Na HNO 3 HN ᅌ Superfund

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-22109-1 SDG Number: 03E1558140

List Source: Eurofins Midland

Login Number: 22109 List Number: 1

Creator: Kramer, Jessica

| 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. | 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"). | N/A | |

Released to Imaging: 3/29/2023 4:00:01 PM

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/13/2022 1:35:41 PM Revision 1

JOB DESCRIPTION

JRU D12 CTB SDG NUMBER 03E1558140

JOB NUMBER

880-22110-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 12/13/2022 1:35:41 PM Revision 1

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

Client: Ensolum
Project/Site: JRU D12 CTB
Laboratory Job ID: 880-22110-1
SDG: 03E1558140

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Definitions/Glossary

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB

SDG: 03E1558140

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|---|
| *_ | LCS and/or LCSD is outside acceptance limits, low biased. |

*1 LCS/LCSD RPD exceeds control limits.

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. 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**

Indicates the analyte was analyzed for but not detected.

Glossary

| Abbreviation | These commonly | y used abbreviations may | y 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 Contains Free Liquid **CFL** 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) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDI 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

Practical Quantitation Limit PQL

Presumptive **PRES** 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

Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Job ID: 880-22110-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22110-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 12/7/2022. The report (revision 1) is being revised due to: Per client email, requesting chloride re run on PH01 @ 2'. Also client states that PH01 is PH03 and PH03 is a PH01, revision needed to show sample name change.

Receipt

The samples were received on 11/30/2022 2:12 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 was 1.0° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40771 and analytical batch 880-40980 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-40980 recovered above the upper control limit for Toluene and Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes samples were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40811 and analytical batch 880-40980 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02 (880-22110-2), PH04 (880-22110-4), (LCSD 880-40811/2-A) and (MB 880-40771/5-A). 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: (CCV 880-40980/2). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-40771/2-A) and (MB 880-40811/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH04 (880-22110-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Instrument misinjection for the LCSD. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

(LCSD 880-40811/2-A)

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

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PH03 (880-22110-1) and (880-22110-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: PH02 (880-22110-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum

Job ID: 880-22110-1 Project/Site: JRU D12 CTB

SDG: 03E1558140

Job ID: 880-22110-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

General Chemistry

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

Organic Prep

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

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

Matrix: Solid

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Client Sample ID: PH03 Lab Sample ID: 880-22110-1

Date Collected: 11/28/22 12:10 Date Received: 11/30/22 14:12

Sample Depth: 2'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 72 | | 70 - 130 | | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | | | 12/01/22 11:05 | 12/04/22 22:29 | 1 |

| WELLIOU. TAL SUP TOTAL DIEX | - IULAI DIE | A Calculation | ווט | | | | | |
|-----------------------------|-------------|---------------|---------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/05/22 14:46 | 1 |
| | | | | | | | | |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|--|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/07/22 09:45 | 1 |

| Method: SW846 8015B NM - D Analyte | _ | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 11:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 11:29 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 11:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 140 | S1+ | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 11:29 | 1 |

| | | | | | | | • |
|----------------------------------|------------------|--------------|------|---|---------------|----------------|---------|
| o-Terphenyl | 135 S1+ | 70 - 130 | | 1 | 2/05/22 11:32 | 12/06/22 11:29 | 1 |
| Method: MCAWW 300.0 - Anions, lo | n Chromatograph | ıy - Soluble | | | | | |
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

4.95 12/08/22 12:59 **Chloride** 767 mg/Kg **Client Sample ID: PH02** Lab Sample ID: 880-22110-2

Date Collected: 11/28/22 12:50 Date Received: 11/30/22 14:12

Sample Depth: 2'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 67 | S1- | 70 - 130 | | | 12/01/22 11:05 | 12/04/22 22:55 | 1 |

Eurofins Midland

Matrix: Solid

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: PH02 Lab Sample ID: 880-22110-2

Date Collected: 11/28/22 12:50

Matrix: Solid

Date Received: 11/30/22 14:12 Sample Depth: 2'

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

 Surrogate
 %Recovery [Qualifier]
 Limits [Insert Prepared Not Prepa

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00402</td>
 U
 0.00402
 mg/Kg
 12/05/22 14:46
 1

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

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 <49.9</td>
 U
 49.9
 mg/Kg
 12/07/22 09:45
 1

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

Result Qualifier D Dil Fac **Analyte** Unit Prepared Analyzed <49.9 U 49.9 12/05/22 11:32 12/06/22 12:35 Gasoline Range Organics mg/Kg (GRO)-C6-C10 12/05/22 11:32 12/06/22 12:35 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 12/05/22 11:32 12/06/22 12:35 mg/Kg

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Factor

 1-Chlorooctane
 145
 S1+
 70 - 130
 12/05/22 11:32
 12/06/22 12:35
 1

 o-Terphenyl
 138
 S1+
 70 - 130
 12/05/22 11:32
 12/06/22 12:35
 1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: PH01 Lab Sample ID: 880-22110-3
Date Collected: 11/28/22 13:20 Matrix: Solid

Date Collected: 11/28/22 13:20 Date Received: 11/30/22 14:12

Sample Depth: 2'

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

Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene < 0.00199 U 0.00199 mg/Kg 12/01/22 11:05 12/05/22 00:19 Toluene <0.00199 U 0.00199 mg/Kg 12/01/22 11:05 12/05/22 00:19 Ethylbenzene <0.00199 U 0.00199 mg/Kg 12/01/22 11:05 12/05/22 00:19 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 12/01/22 11:05 12/05/22 00:19 o-Xylene <0.00199 U 0.00199 mg/Kg 12/01/22 11:05 12/05/22 00:19 Xylenes, Total <0.00398 U 0.00398 mg/Kg 12/01/22 11:05 12/05/22 00:19

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 12/01/22 11:05 12/05/22 00:19 4-Bromofluorobenzene (Surr) 71 1,4-Difluorobenzene (Surr) 100 70 - 130 12/01/22 11:05 12/05/22 00:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00398</td>
 U
 0.00398
 mg/Kg
 12/05/22 14:46
 1

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

 Analyte
 Result Total TPH
 Qualifier Qualifier
 RL Qualifier
 Unit MEDICAL PROPRIET
 Description
 Prepared Pr

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Client: Ensolum Job ID: 880-22110-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

Client Sample ID: PH01 Lab Sample ID: 880-22110-3

Date Collected: 11/28/22 13:20 Matrix: Solid Date Received: 11/30/22 14:12

Sample Depth: 2'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 12:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 12:57 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/22 11:32 | 12/06/22 12:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 12:57 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 12:57 | 1 |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|------------------|------|-------|---|----------|----------------|---------|--|--|--|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Chloride | 225 | 5.01 | mg/Kg | | | 12/03/22 19:10 | 1 | | | |

Lab Sample ID: 880-22110-4 **Client Sample ID: PH04 Matrix: Solid**

Date Collected: 11/28/22 13:30 Date Received: 11/30/22 14:12

Sample Depth: 2'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------------|------------|------------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U *- *1 | 0.00199 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| Ethylbenzene | < 0.00199 | U *- *1 | 0.00199 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U *- *1 | 0.00398 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| o-Xylene | < 0.00199 | U *- *1 | 0.00199 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| Xylenes, Total | <0.00398 | U *- *1 | 0.00398 | mg/Kg | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 60 | S1- | 70 - 130 | | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | 12/01/22 14:14 | 12/05/22 12:38 | 1 |
| Method: TAL SOP Total BT | EX - Total BTE | X Calculat | ion | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/05/22 14:46 | 1 |
| Method: SW846 8015 NM - | Diesel Range | Organics (| DRO) (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/07/22 09:45 | 1 |
| Method: SW846 8015B NM | - Diesel Range | Organics | (DRO) (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 13:19 | 1 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 13:19 | 1 | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 13:19 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 117 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 13:19 | 1 | |
| o-Terphenyl | 117 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 13:19 | 1 | |

Client Sample Results

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: PH04 Lab Sample ID: 880-22110-4

Date Collected: 11/28/22 13:30

Matrix: Solid

Date Received: 11/30/22 14:12 Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 345 | | 5.00 | mg/Kg | | | 12/03/22 19:18 | 1 |

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Surrogate Summary

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | Percent Surrogate Recover | y (Acceptance Limits) |
|--------------------|------------------------|----------|---------------------------|-----------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | 70-130) | |
| 880-22110-1 | PH03 | 72 | 110 | |
| 880-22110-2 | PH02 | 67 S1- | 107 | |
| 880-22110-3 | PH01 | 71 | 100 | |
| 880-22110-4 | PH04 | 60 S1- | 106 | |
| LCS 880-40771/1-A | Lab Control Sample | 75 | 99 | |
| LCS 880-40811/1-A | Lab Control Sample | 85 | 108 | |
| LCSD 880-40771/2-A | Lab Control Sample Dup | 68 S1- | 97 | |
| LCSD 880-40811/2-A | Lab Control Sample Dup | 208 S1+ | 120 | |
| MB 880-40771/5-A | Method Blank | 66 S1- | 108 | |
| MB 880-40811/5-A | Method Blank | 67 S1- | 102 | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

| | | | Percent S | urrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|-----------|---------------------------------------|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-22110-1 | PH03 | 140 S1+ | 135 S1+ | |
| 880-22110-1 MS | PH03 | 142 S1+ | 112 | |
| 880-22110-1 MSD | PH03 | 120 | 99 | |
| 880-22110-2 | PH02 | 145 S1+ | 138 S1+ | |
| 880-22110-3 | PH01 | 122 | 118 | |
| 880-22110-4 | PH04 | 117 | 117 | |
| LCS 880-41024/2-A | Lab Control Sample | 129 | 120 | |
| LCSD 880-41024/3-A | Lab Control Sample Dup | 129 | 117 | |
| MB 880-41024/1-A | Method Blank | 130 | 127 | |

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40771/5-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40771

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| | 440 | 140 | | | | | | |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 66 | S1- | 70 - 130 | 12/01/22 11:05 | 12/04/22 18:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | 12/01/22 11:05 | 12/04/22 18:55 | 1 |

Lab Sample ID: LCS 880-40771/1-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 40771

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 70 - 130 0.100 0.09203 mg/Kg 92 Toluene 0.100 mg/Kg 70 - 130 0.1093 109 Ethylbenzene 0.100 0.1033 mg/Kg 103 70 - 130 0.200 90 m-Xylene & p-Xylene 0.1809 mg/Kg 70 - 130 o-Xylene 0.100 0.08685 87 70 - 130 mg/Kg

LCS LCS

| Surrogate | %Recovery Qua | lifier Limits |
|-----------------------------|---------------|---------------|
| 4-Bromofluorobenzene (Surr) | 75 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | 70 - 130 |

Lab Sample ID: LCSD 880-40771/2-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 40771

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.08920 mg/Kg 89 70 - 130 3 35 Toluene 0.100 0.1090 mg/Kg 109 70 - 130 0 35 Ethylbenzene 0.100 0.1045 mg/Kg 105 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1820 mg/Kg 91 70 - 130 35 0.100 0.08648 86 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

Lab Sample ID: MB 880-40811/5-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 40811

| | INID | IAID | | | | | |
|---------|----------|-----------|---------|--------|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | 12/01/22 14:14 | 12/05/22 06:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/22 14:14 | 12/05/22 06:31 | 1 |

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QC Sample Results

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

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

Lab Sample ID: MB 880-40811/5-A Matrix: Solid

Analysis Batch: 40980

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

Prep Batch: 40811

MB MB Result Qualifier RL Unit **Prepared** Analyzed Dil Fac Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/01/22 14:14 12/05/22 06:31 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/01/22 14:14 12/05/22 06:31 o-Xylene <0.00200 U 0.00200 mg/Kg 12/01/22 14:14 12/05/22 06:31 12/01/22 14:14 12/05/22 06:31 Xylenes, Total <0.00400 U 0.00400 mg/Kg

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 67 | S1- | 70 - 130 | 12/01/22 14:14 | 12/05/22 06:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 12/01/22 14:14 | 12/05/22 06:31 | 1 |

Lab Sample ID: LCS 880-40811/1-A

Matrix: Solid

Analysis Batch: 40980

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

Prep Batch: 40811

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.08833 88 70 - 130 mg/Kg Toluene 0.100 0.1000 mg/Kg 100 70 - 130 Ethylbenzene 0.100 0.09631 mg/Kg 96 70 - 130 m-Xylene & p-Xylene 0.200 85 0.1709 mg/Kg 70 - 130 o-Xylene 0.100 0.08525 mg/Kg 85 70 - 130

LCS LCS

| Surrogate | %Recovery (| Qualifier | Limits |
|-----------------------------|-------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: LCSD 880-40811/2-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40811

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.03146 | *- *1 | mg/Kg | | 31 | 70 - 130 | 95 | 35 |
| Toluene | 0.100 | 0.08959 | | mg/Kg | | 90 | 70 - 130 | 11 | 35 |
| Ethylbenzene | 0.100 | 0.01188 | *- *1 | mg/Kg | | 12 | 70 - 130 | 156 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.04413 | *- *1 | mg/Kg | | 22 | 70 - 130 | 118 | 35 |
| o-Xylene | 0.100 | 0.04894 | *- *1 | mg/Kg | | 49 | 70 - 130 | 54 | 35 |

LCSD LCSD

| Surrogate | %Recovery | Quaimer | Limits |
|-----------------------------|-----------|---------|----------|
| 4-Bromofluorobenzene (Surr) | 208 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 |

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

Lab Sample ID: MB 880-41024/1-A

Matrix: Solid

Analysis Batch: 41104

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

Prep Batch: 41024

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 12/05/22 11:32
 12/06/22 08:55
 1

(GRO)-C6-C10

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Client: Ensolum Job ID: 880-22110-1 SDG: 03E1558140 Project/Site: JRU D12 CTB

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

Lab Sample ID: MB 880-41024/1-A **Client Sample ID: Method Blank** Matrix: Solid **Prep Type: Total/NA** Prep Batch: 41024 **Analysis Batch: 41104**

| | MB | MB | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| | MB | MB | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 130 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | | | 12/05/22 11:32 | 12/06/22 08:55 | 1 |

| Lab Sample ID: LCS 880- Matrix: Solid Analysis Batch: 41104 | 41024/2-A | | | | | Clier | ıt Saı | nple ID | : Lab Control Sample Prep Type: Total/N/ Prep Batch: 4102 |
|---|-----------|-----------|----------|--------|-----------|-------|--------|---------|---|
| | | | Spike | LCS | LCS | | | | %Rec |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 840.2 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 897.2 | | mg/Kg | | 90 | 70 - 130 |
| C10-C28) | | | | | | | | | |
| | LCS | LCS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 129 | | 70 - 130 | | | | | | |
| o-Terphenyl | 120 | | 70 - 130 | | | | | | |

| | | C | Client Sai | nple | ID: Lab | Prep Ty | ype: Total/NA | | |
|-------|-----------|-------------------------|---|--|--|--|----------------------------|---|--|
| Spike | LCSD | LCSD | | | | %Rec | | RPD | |
| Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| 1000 | 836.2 | | mg/Kg | | 84 | 70 - 130 | 0 | 20 | |
| 1000 | 886.7 | | mg/Kg | | 89 | 70 - 130 | 1 | 20 | |
| | Added1000 | Added Result 1000 836.2 | Spike LCSD LCSD Added Result Qualifier 1000 836.2 | Spike LCSD LCSD Added Result Qualifier mg/Kg | Spike LCSD LCSD Added Result Qualifier Unit Dmg/Kg | Spike LCSD LCSD Added Result Qualifier Unit D %Rec 1000 836.2 mg/Kg 84 | Spike LCSD LCSD WRec | Added Result Qualifier Unit D Result RPD 836.2 Unit mg/Kg D 84 70 - 130 0 | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 129 | | 70 - 130 |
| o-Terphenyl | 117 | | 70 - 130 |

| Lab Sample ID: 880-2211 Matrix: Solid Analysis Batch: 41104 | | Sample Sample | | Spike MS M | MS | | | С | lient Sample ID: PH03 Prep Type: Total/NA Prep Batch: 41024 %Rec |
|---|-----------|---------------|----------|------------|-----------|-------|---|------|---|
| Analyte | • | Qualifier | Added | _ | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 1052 | | mg/Kg | | 103 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 999 | 1095 | | mg/Kg | | 108 | 70 - 130 |
| | MS | MS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 142 | S1+ | 70 - 130 | | | | | | |
| o-Terphenyl | 112 | | 70 - 130 | | | | | | |

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB

SDG: 03E1558140

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

Lab Sample ID: 880-22110-1 MSD Client Sample ID: PH03

Matrix: Solid

Analysis Batch: 41104

Prep Type: Total/NA Prep Batch: 41024

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Analyte <50.0 U Gasoline Range Organics 997 924.9 mg/Kg 90 70 - 130 13 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 961.7 95 70 - 130 mg/Kg 13

C10-C28)

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 120 | | 70 - 130 |
| o-Terphenyl | 99 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40835/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40953

MB MB

| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 U | J | 5.00 | mg/Kg | | | 12/03/22 17:16 | 1 |

Lab Sample ID: LCS 880-40835/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40953

| | Spike | LCS | LCS | | | | %Rec | |
|----------|---------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 252.2 | | mg/Kg | | 101 | 90 - 110 | |

Lab Sample ID: LCSD 880-40835/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40953

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 252.0 | | mg/Kg | | 101 | 90 - 110 | 0 | 20 | |

Lab Sample ID: MB 880-41240/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 41303

MB MB

| Analyte | Result Qualif | ier RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------------|--------|-------|---|----------|----------------|---------|
| Chloride | <5.00 U | 5.00 | mg/Kg | | | 12/08/22 09:59 | 1 |

Lab Sample ID: LCS 880-41240/2-A

Matrix: Solid

Analysis Batch: 41303

| | Spike | LCS | LCS | | | | %Rec |
|----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | 250 | 264.7 | | mg/Kg | | 106 | 90 - 110 |

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Prep Type: Soluble

Client Sample ID: Lab Control Sample

Lab Sample ID: LCSD 880-41240/3-A

QC Sample Results

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid Analysis Batch: 41303

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 265.3 mg/Kg 106 90 - 110 0 20

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

GC VOA

Prep Batch: 40771

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22110-1 | PH03 | Total/NA | Solid | 5035 | |
| 880-22110-2 | PH02 | Total/NA | Solid | 5035 | |
| 880-22110-3 | PH01 | Total/NA | Solid | 5035 | |
| MB 880-40771/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40771/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40771/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Prep Batch: 40811

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22110-4 | PH04 | Total/NA | Solid | 5035 | |
| MB 880-40811/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40811/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40811/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Analysis Batch: 40980

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22110-1 | PH03 | Total/NA | Solid | 8021B | 40771 |
| 880-22110-2 | PH02 | Total/NA | Solid | 8021B | 40771 |
| 880-22110-3 | PH01 | Total/NA | Solid | 8021B | 40771 |
| 880-22110-4 | PH04 | Total/NA | Solid | 8021B | 40811 |
| MB 880-40771/5-A | Method Blank | Total/NA | Solid | 8021B | 40771 |
| MB 880-40811/5-A | Method Blank | Total/NA | Solid | 8021B | 40811 |
| LCS 880-40771/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40771 |
| LCS 880-40811/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40811 |
| LCSD 880-40771/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40771 |
| LCSD 880-40811/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40811 |

Analysis Batch: 41072

| Lab Sample ID 880-22110-1 | Client Sample ID PH03 | Prep Type Total/NA | Matrix Solid | Method Total BTEX | Prep Batch |
|----------------------------------|-----------------------|--------------------|-----------------|----------------------|------------|
| 880-22110-2 | PH02 | Total/NA | Solid | Total BTEX | |
| 880-22110-3 | PH01 | Total/NA | Solid | Total BTEX | |
| 880-22110-4 | PH04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 41024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-22110-1 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 880-22110-2 | PH02 | Total/NA | Solid | 8015NM Prep | |
| 880-22110-3 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 880-22110-4 | PH04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-41024/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-41024/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-41024/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-22110-1 MS | PH03 | Total/NA | Solid | 8015NM Prep | |
| 880-22110-1 MSD | PH03 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 41104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-22110-1 | PH03 | Total/NA | Solid | 8015B NM | 41024 |

Eurofins Midland

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QC Association Summary

Client: Ensolum Job ID: 880-22110-1 Project/Site: JRU D12 CTB SDG: 03E1558140

GC Semi VOA (Continued)

Analysis Batch: 41104 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-22110-2 | PH02 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22110-3 | PH01 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22110-4 | PH04 | Total/NA | Solid | 8015B NM | 41024 |
| MB 880-41024/1-A | Method Blank | Total/NA | Solid | 8015B NM | 41024 |
| LCS 880-41024/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 41024 |
| LCSD 880-41024/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 41024 |
| 880-22110-1 MS | PH03 | Total/NA | Solid | 8015B NM | 41024 |
| 880-22110-1 MSD | PH03 | Total/NA | Solid | 8015B NM | 41024 |

Analysis Batch: 41227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-22110-1 | PH03 | Total/NA | Solid | 8015 NM | |
| 880-22110-2 | PH02 | Total/NA | Solid | 8015 NM | |
| 880-22110-3 | PH01 | Total/NA | Solid | 8015 NM | |
| 880-22110-4 | PH04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 40835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-22110-2 | PH02 | Soluble | Solid | DI Leach | |
| 880-22110-3 | PH01 | Soluble | Solid | DI Leach | |
| 880-22110-4 | PH04 | Soluble | Solid | DI Leach | |
| MB 880-40835/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40835/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40835/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 40953

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22110-2 | PH02 | Soluble | Solid | 300.0 | 40835 |
| 880-22110-3 | PH01 | Soluble | Solid | 300.0 | 40835 |
| 880-22110-4 | PH04 | Soluble | Solid | 300.0 | 40835 |
| MB 880-40835/1-A | Method Blank | Soluble | Solid | 300.0 | 40835 |
| LCS 880-40835/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40835 |
| LCSD 880-40835/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40835 |

Leach Batch: 41240

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-22110-1 | PH03 | Soluble | Solid | DI Leach | |
| MB 880-41240/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-41240/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-41240/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 41303

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-22110-1 | PH03 | Soluble | Solid | 300.0 | 41240 |
| MB 880-41240/1-A | Method Blank | Soluble | Solid | 300.0 | 41240 |
| LCS 880-41240/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 41240 |
| LCSD 880-41240/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 41240 |

Project/Site: JRU D12 CTB Client Sample ID: PH03

Client: Ensolum

Lab Sample ID: 880-22110-1

Matrix: Solid

Date Collected: 11/28/22 12:10 Date Received: 11/30/22 14:12

| _ | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 40771 | MNR | EET MID | 12/01/22 11:05 |
| Total/NA | Analysis | 8021B | | 1 | 40980 | MNR | EET MID | 12/04/22 22:29 |
| Total/NA | Analysis | Total BTEX | | 1 | 41072 | SM | EET MID | 12/05/22 14:46 |
| Total/NA | Analysis | 8015 NM | | 1 | 41227 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 11:29 |
| Soluble | Leach | DI Leach | | | 41240 | KS | EET MID | 12/07/22 10:00 |
| Soluble | Analysis | 300.0 | | 1 | 41303 | CH | EET MID | 12/08/22 12:59 |

Lab Sample ID: 880-22110-2

Matrix: Solid

Date Collected: 11/28/22 12:50 Date Received: 11/30/22 14:12

Client Sample ID: PH02

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab Total/NA 5035 40771 MNR EET MID 12/01/22 11:05 Prep 8021B **EET MID** Total/NA 40980 MNR 12/04/22 22:55 Analysis 1 Total/NA Total BTEX 12/05/22 14:46 Analysis 1 41072 SM **EET MID** Total/NA 8015 NM **EET MID** Analysis 1 41227 SM 12/07/22 09:45 Total/NA Prep 8015NM Prep 41024 DM **EET MID** 12/05/22 11:32 Total/NA 8015B NM 41104 SM **EET MID** 12/06/22 12:35 Analysis 1 Soluble **EET MID** 12/01/22 17:36 Leach DI Leach 40835 SMC 300.0 40953 CH **EET MID** 12/03/22 19:02 Soluble Analysis 1

Client Sample ID: PH01 Lab Sample ID: 880-22110-3 Date Collected: 11/28/22 13:20 **Matrix: Solid**

Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 40771 | MNR | EET MID | 12/01/22 11:05 |
| Total/NA | Analysis | 8021B | | 1 | 40980 | MNR | EET MID | 12/05/22 00:19 |
| Total/NA | Analysis | Total BTEX | | 1 | 41072 | SM | EET MID | 12/05/22 14:46 |
| Total/NA | Analysis | 8015 NM | | 1 | 41227 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 12:57 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 19:10 |

Client Sample ID: PH04 Lab Sample ID: 880-22110-4 Date Collected: 11/28/22 13:30 Matrix: Solid

Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 40811 | MNR | EET MID | 12/01/22 14:14 |
| Total/NA | Analysis | 8021B | | 1 | 40980 | MNR | EET MID | 12/05/22 12:38 |
| Total/NA | Analysis | Total BTEX | | 1 | 41072 | SM | EET MID | 12/05/22 14:46 |

Lab Chronicle

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Client Sample ID: PH04 Lab Sample ID: 880-22110-4

. Matrix: Solid

Date Collected: 11/28/22 13:30 Date Received: 11/30/22 14:12

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-------------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8015 NM | | 1 | 41227 | SM | EET MID | 12/07/22 09:45 |
| Total/NA | Prep | 8015NM Prep | | | 41024 | DM | EET MID | 12/05/22 11:32 |
| Total/NA | Analysis | 8015B NM | | 1 | 41104 | SM | EET MID | 12/06/22 13:19 |
| Soluble | Leach | DI Leach | | | 40835 | SMC | EET MID | 12/01/22 17:36 |
| Soluble | Analysis | 300.0 | | 1 | 40953 | CH | EET MID | 12/03/22 19:18 |

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 880-22110-1

 Project/Site: JRU D12 CTB
 SDG: 03E1558140

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|------------------------|-----------------------------|------------------------------|---|--------------------------------------|
| Texas | NE | ELAP | T104704400-22-24 | 06-30-23 |
| The following analyte: | s are included in this rend | ort but the laboratory is r | not certified by the governing authority. | This list may include analytes for y |
| the agency does not o | • | ore, but the laboratory is i | lot certified by the governing authority. | This list may include analytes for v |
| , | • | Matrix | Analyte | This list may include analytes for v |
| the agency does not o | offer certification. | • | , , , | This list may include analytes for v |

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Method Summary

Client: Ensolum

Project/Site: JRU D12 CTB

Job ID: 880-22110-1

SDG: 03E1558140

| 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 |
| 3015B 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 |
| 3015NM Prep | Microextraction | SW846 | EET MID |
| Ol 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: JRU D12 CTB

Job ID: 880-22110-1

SDG: 03E1558140

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-22110-1 | PH03 | Solid | 11/28/22 12:10 | 11/30/22 14:12 | 2' |
| 880-22110-2 | PH02 | Solid | 11/28/22 12:50 | 11/30/22 14:12 | 2' |
| 880-22110-3 | PH01 | Solid | 11/28/22 13:20 | 11/30/22 14:12 | 2' |
| 880-22110-4 | PH04 | Solid | 11/28/22 13:30 | 11/30/22 14:12 | 2' |

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Chain of Custody

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

| Work Order No: 22110 |
|----------------------|

| ı | | | www.xenco.com Page_ | Of |
|--|---|--|---|--|
| Project Manager Ben Ben 1 | Bill to (if different) | Garrett Green | ĔΙ | W. Andrews |
| yName Ensolum, LLC | Company Name | X To Energy | I | RRC Superfund |
| Address 3122 Nati Parks Hwy | Address. | 3104 E Greene St | roject: | 2 de la companya de l |
| 8220 | City State ZIP- | | Reporting Level II Level III PST/UST TRRP | TRRP Level IV |
| Phone 989,854,0853 Email | bbc1(1) | 1 | Deliverables EDD ☐ ADaPT ☐ (| |
| 50 | Turn Around | ANALYSIS REQUEST | | Preservative Codes |
| Project Number 03F1558140 Moutine | Rush Code | | None NO | DI Water: H.O |
| Project Location 32.3635, 703.83810 Due Date | | | (co) (co) | Mach Ma |
| ler's Name: | day received by | | HCL. HC | HNO, HN |
| | <u> </u> | | H-50, H- | NaOH Na |
| SAMPLE RECEIPT Temp Blank. (Yes) No Wet Ice- | Yes No | | 1120 4 112 DD LD | NaCH Na |
| Samples Received Intact: Yes No Thermometer ID: | رد |) | Nation N | ARIC |
| Cooler Custody Seals Yes No N/A Correction Factor | _] | <u> </u> | Nac | AVEC AVEC |
| Sample Custody Seals: Yes No N/A Temperature Reading | o | 11d | Zn Acceptato Nacional | AUSO 3 |
| Total Containers. Corrected Temperature: | | or | NaOH+Asc | NaOH+Ascorbic Acid SAPC |
| Sample Identification Matrix Date Time Sampled Sampled | Depth Grab/ # of Comp Cont | BT! Chi TPI | Samı | Sample Comments |
| S 1128122 1 | 1 5, C | X | Incident # | ST II |
| PHOS /370 | 2 0 | | nAPP2 | nAPP222735/943 |
| + | 2, V | | | _ 1 |
| | 88 | | | 37.0%. |
| | THE REAL PROPERTY AND PROPERTY | a a | 000 | 0043102 |
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| | | | | |
| | | | | |
| | | | | |
| 8RCR | S | As Ba Be B Cd Ca Cr Co | T Sn U V Zn | V Zn |
| Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 | LP 6010 8RCRA S | 880-22110 | Chain of Custody 7470 / 7471 | 471 |
| 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 as the control 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 \$5.00 cases from the control of the cont | from client company to Euro sibility for any losses or expen | fins Xenco, its affiliates and subcontractors. It as a more centre sees incurred by the client if such losses are due to circumstances beyon | | |
| Belinquished by: (Signature) A Received by: (Signature) | | | | |
| | | nelliquisned by (signature) | Received by: (Signature) | Date/Time |
| | | 30/22 2:12 2 | | |
| 5 | | 4 | | |
| | | 0 | | |

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22110-1

SDG Number: 03E1558140

Login Number: 22110 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

| 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. | 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"). | N/A | |

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APPENDIX E

NMOCD Notifications

From: Green, Garrett J

To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Cc: <u>DelawareSpills /SM; Tacoma Morrissey</u>

Subject: XTO - Sampling Notification (Week of 11/28/22 - 12/2/22)

Date: Wednesday, November 23, 2022 3:15:42 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 28, 2022.

- JRU DI2 CTB/ nAPP2227351943
- Row 4 Muy Wayno Line/ nAPP2209039217
- PLU 428 CTB / nAPP2230831509

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 167845

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 167845 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Cı | reated By | Condition | Condition Date |
|----|-----------|--|-------------------|
| r | hamlet | We have received your closure report and final C-141 for Incident #NAPP2227351943 JRU DI 2 CTB, thank you. This closure is approved. | 3/29/2023 |