



June 12, 2024

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
BEU Connector PW Booster and Mobley Ranch  
Incident Numbers NAPP2213151424 and NAPP2316045229  
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 excavation and soil sampling activities performed at the BEU Connector PW Booster and Mobley Ranch (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)* and an approved *Remediation Work Plan Update (Work Plan Update)*, was to address impacts to soil resulting from two releases of produced water at the Site. XTO is submitting this *Closure Request*, describing final excavation activities that have occurred and requesting no further remediation for Incident Numbers NAPP2213151424 and NAPP2316045229.

**RELEASE SUMMARY AND BACKGROUND**

The Site is located in Unit H, Section 22, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.29070°, -103.86159°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO). Please see the brief summary of events below. Additional details can be found in the *Work Plan* and *Work Plan Update*.

On April 27, 2022, approximately 296.34 barrels (bbls) of produced water released onto a pipeline right-of-way (ROW) and pasture area. No fluids were recovered. The release was assigned Incident Number NAPP2213151424. In August 2022, following approval by NMSLO of a Right of Entry (ROE) request, delineation of the Site was completed. A *Work Plan* was submitted on October 24, 2022 proposing excavation of impacted soil and requesting a soil sampling variance. The *Work Plan* was approved on February 28, 2023. Following approval of the *Work Plan*, XTO requested an Archaeological Records Management Section (ARMS) review to ensure compliance with the Cultural Properties Protection (CPP) Rule, published after submittal of the *Work Plan*. While access to the Site was pending approval, a second release occurred.

On May 27, 2023, approximately 9.04 bbls of produced water were released onto the pipeline ROW and pasture area, overlapping Incident Number NAPP2213151424. Approximately 2 bbls of produced water were recovered. The release was assigned Incident Number NAPP2316045229. The ARMS review was completed and confirmed the area had been previously surveyed and no cultural properties

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were identified in the vicinity of the release and potential disturbance areas. An NMSLO Cultural Resources Cover Sheet documenting the results of the ARMS review was submitted to the Cultural Resources Office (CRO) on September 21, 2023.

In September and October 2023, Ensolum personnel conducted additional Site assessment, delineation and excavation activities and presented the results in a *Work Plan Update*. The *Work Plan Update* was submitted on October 25, 2023 proposing continued excavation of impacted soil and confirmation soil sampling in alignment with the previously approved October 24, 2022 *Work Plan*. The *Work Plan Update* was approved by NMOCD on March 12, 2024. The *Work Plan Update*, which includes a copy of the *Work Plan*, is included in Appendix A and can be found on the NMOCD web portal.

## CLOSURE CRITERIA

The Site was characterized in the *Work Plan* to assess the applicability of Table I, Closure Criteria for Soils Impacted by Release of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization detailed in the approved *Work Plan*, the following Table I Closure Criteria (Closure Criteria) apply:

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the ROW and pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite between October 18, 2023 and November 2, 2023 to excavate impacted soil according to the approved *Work Plan* and *Work Plan Update*. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Once field screening results indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 500 square feet, following the approved sampling variance, from the floor and sidewall of the excavation extent. 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. Confirmation soil samples FS01 through FS56 were collected from the floor of the excavation at depths ranging from 2 feet to 3 feet bgs. Confirmation soil samples SW01 through SW20 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities and final excavation extent is provided 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 or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following COCs: BTEX

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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 or SM4500Cl-B. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered by the laboratory to have been received in acceptable condition.

On October 12, 2023, Ensolum personnel returned to the Site to oversee the excavation of residual chloride-impacted soil located in the vicinity of confirmation floor soil sample FS15, collected at 2 feet bgs. Heavy equipment was utilized to complete the excavation to a total depth of 3 feet bgs. Following the removal of the soil, confirmation floor soil samples FS15A was collected at 3 feet bgs. The confirmation soil sample was collected, handled, and submitted for the same COCs as described above.

The final excavation extent measured approximately 27,750 square-feet. A total of approximately 4,000 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured topsoil and the area was restored to its original condition. Following backfill activities, the disturbed area was graded and contoured to match the surrounding topography.

**LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for all final excavation floor and sidewall samples indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C.

**RECLAMATION PLAN**

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured topsoil. One representative 5-point composite sample will be collected from the backfill material to confirm compliance with the NMOCD requirement for the reclaimed area to be non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The representative backfill sample will be handled and analyzed following the same procedures as described above.

Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The proposed NMSLO Sandy Site Seed Mixture, below, will be used to seed the Site at the rate specified in pounds of pure live seed (PLS) per acre. Seed species will include:

| <b>Grasses</b>         | <b>PLS/Acre</b> |
|------------------------|-----------------|
| Sand bluestem          | 2.0             |
| Little bluestem        | 3.0             |
| Black grama            | 1.0             |
| Sand dropseed          | 4.0             |
| Plains bristlegrass    | 2.0             |
| <b>Forbs</b>           | <b>PLS/Acre</b> |
| Firewheel (Gaillardia) | 1.0             |
| Annual Sunflower       | 1.0             |

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| Shrubs             | PLS/Acre |
|--------------------|----------|
| Fourwing Saltbrush | 1.0      |

The seed mix will be applied via drill seeding. Reclamation activities will be documented with photographs and will be timestamped with Global Positioning System (GPS) data.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the seed mixture will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

## CLOSURE REQUEST

Excavation activities were conducted at the Site in accordance with the approved *Work Plan* and *Work Plan Update* to address the two produced water releases at the Site. Laboratory analytical results for all excavation soil samples indicate all COC concentrations were compliant with the Closure Criteria and reclamation requirement. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions. Photographic documentation of the backfill is provided in Appendix B. NMOCD correspondence is included in Appendix D.

Excavation of soil has mitigated impacts exceeding the Closure Criteria and reclamation requirement at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers NAPP2213151424 and NAPP2316045229.



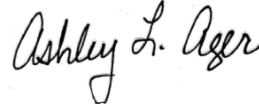
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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,  
**Ensolum, LLC**



David A. McInnis  
Project Geologist



Ashley L. Ager, M.S., P.G.  
Principal

cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
NMSLO

Appendices:

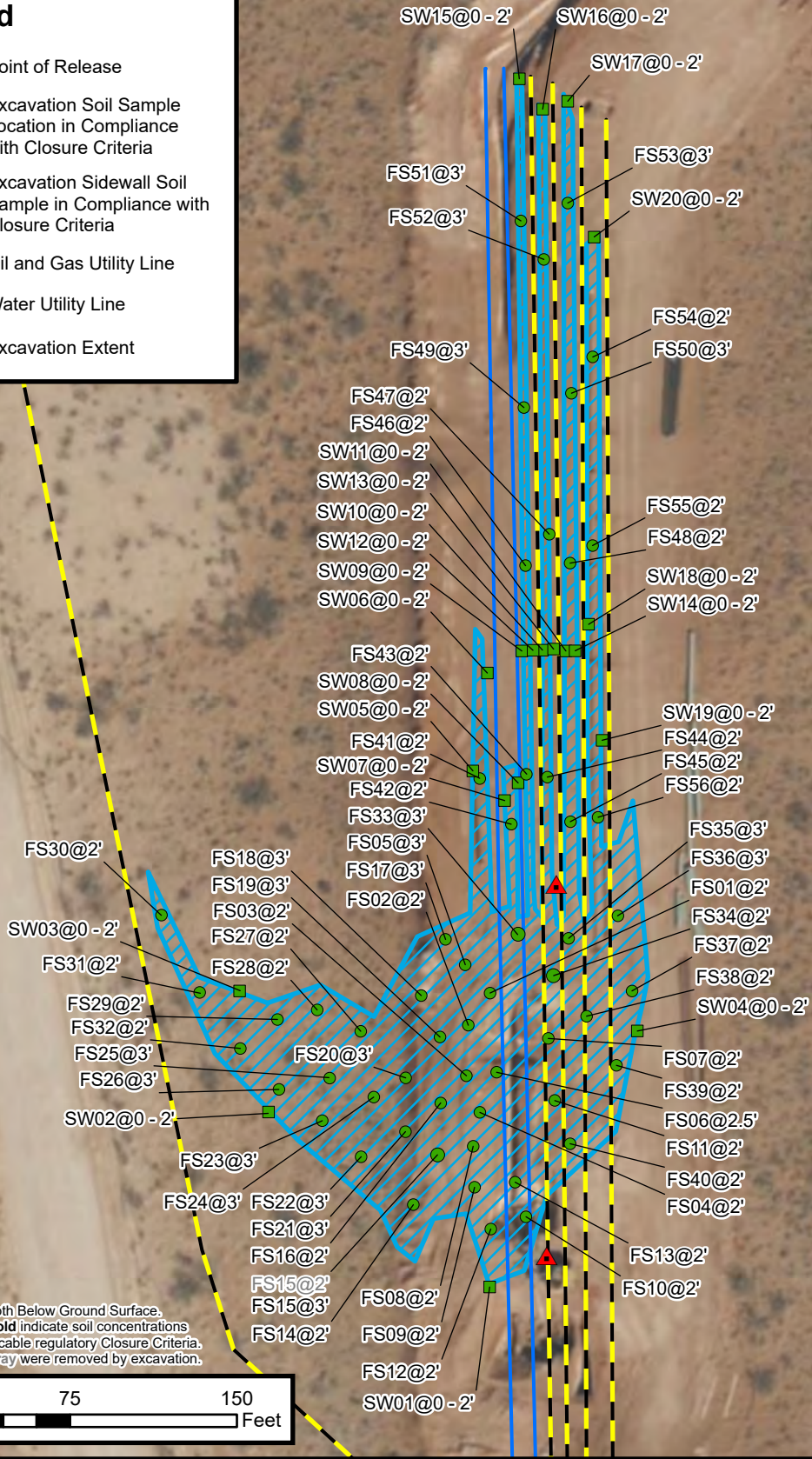
Figure 1 Excavation Soil Sample Locations  
Table 1 Soil Sample Analytical Results  
Appendix A October 25, 2023, *Work Plan Update*  
Appendix B Photographic Log  
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation  
Appendix D NMOCD Correspondence



FIGURES

### Legend

- ▲ Point of Release
- Excavation Soil Sample Location in Compliance with Closure Criteria
- Excavation Sidewall Soil Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- Water Utility Line
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Soil samples in **bold** indicate soil concentrations exceeds the applicable regulatory Closure Criteria.  
 Soil samples in gray were removed by excavation.



Sources:  
 Bing Maps

## Excavation Soil Sample Locations

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 Unit H, Sec 22, T23S, R30E  
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FIGURE  
 1





TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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| Sample I.D.                                    | Sample Date           | Sample Depth (feet bgs) | Benzene (mg/kg)      | Total BTEX (mg/kg)   | TPH GRO (mg/kg)     | TPH DRO (mg/kg)     | TPH ORO (mg/kg)     | GRO+DRO (mg/kg)     | Total TPH (mg/kg)   | Chloride (mg/kg) |
|--|-----------------------|-------------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) |                       |                         | 10                   | 50                   | NE                  | NE                  | NE                  | 1,000               | 2,500               | 20,000           |
| Confirmation Floor Samples                     |                       |                         |                      |                      |                     |                     |                     |                     |                     |                  |
| FS01   | 10/18/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 80.0             |
| FS02   | 10/18/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 48.0             |
| FS03   | 10/18/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 128              |
| FS04   | 10/18/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 416              |
| FS05   | 10/18/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | <16.0            |
| FS06   | 10/18/2023            | 2.5                     | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 112              |
| FS07   | 10/18/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | <16.0            |
| FS08   | 10/19/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 32.0             |
| FS09   | 10/19/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 48.0             |
| FS10   | 10/19/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 48.0             |
| FS11   | 10/19/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 176              |
| FS12   | 10/20/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 48.0             |
| FS13   | 10/20/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 176              |
| FS14   | 10/20/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 112              |
| FS15   | <del>10/20/2023</del> | 2                       | <del>&lt;0.050</del> | <del>&lt;0.300</del> | <del>&lt;10.0</del> | <del>&lt;10.0</del> | <del>&lt;10.0</del> | <del>&lt;10.0</del> | <del>&lt;10.0</del> | <del>704</del>   |
| FS15A  | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 96.0             |
| FS16   | 10/20/2023            | 2                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 128              |
| FS17   | 10/20/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 368              |
| FS18   | 10/20/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 336              |
| FS19   | 10/20/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 48.0             |
| FS20   | 10/20/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 192              |
| FS21   | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 128              |
| FS22   | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 144              |
| FS23   | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 96.0             |
| FS24   | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 16.0             |
| FS25   | 10/23/2023            | 3                       | <0.050               | <0.300               | <10.0               | <10.0               | <10.0               | <10.0               | <10.0               | 64.0             |



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 BEU Connector PW Booster and Mobley Ranch  
 XTO Energy, Inc.  
 Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| FS26   | 10/23/2023  | 3                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| FS27   | 10/23/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| FS28   | 10/23/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| FS29   | 10/23/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 64.0             |
| FS30   | 10/24/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| FS31   | 10/24/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| FS32   | 10/24/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 96.0             |
| FS33   | 10/25/2023  | 3                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 160              |
| FS34   | 10/25/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| FS35   | 10/26/2023  | 3                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| FS36   | 10/26/2023  | 3                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| FS37   | 10/26/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| FS38   | 10/26/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| FS39   | 10/26/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| FS40   | 10/26/2023  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| FS41   | 10/30/2023  | 2                       | <0.00201        | <0.00402           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 148              |
| FS42   | 10/30/2023  | 2                       | <0.00200        | <0.00401           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 142              |
| FS43   | 10/30/2023  | 2                       | <0.00199        | <0.00398           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 565              |
| FS44   | 10/31/2023  | 2                       | <0.00198        | <0.00396           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 402              |
| FS45   | 11/02/2023  | 2                       | <0.00199        | <0.00398           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 180              |
| FS46   | 11/02/2023  | 2                       | <0.00199        | <0.00398           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 235              |
| FS47   | 11/02/2023  | 2                       | <0.00200        | <0.00399           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 256              |
| FS48   | 11/02/2023  | 2                       | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 251              |
| FS49   | 11/02/2023  | 3                       | <0.00201        | <0.00402           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 334              |
| FS50   | 11/02/2023  | 3                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 157              |
| FS51   | 11/02/2023  | 3                       | <0.00200        | <0.00399           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 215              |
| FS52   | 11/02/2023  | 3                       | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 247              |
| FS53   | 11/02/2023  | 3                       | <0.00198        | <0.00396           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 255              |
| FS54   | 11/02/2023  | 2                       | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 273              |
| FS55   | 11/02/2023  | 2                       | <0.00199        | <0.00398           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 310              |
| FS56   | 11/02/2023  | 2                       | <0.00200        | <0.00399           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 399              |

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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 XTO Energy, Inc.  
 Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| <b>Confirmation Sidewall Soil Samples</b>      |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SW01   | 10/19/2023  | 0 - 2                   | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 192              |
| SW02   | 10/20/2023  | 0 - 3                   | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 176              |
| SW03   | 10/25/2023  | 0 - 3                   | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 64.0             |
| SW04   | 10/26/2023  | 0 - 3                   | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 64.0             |
| SW05   | 10/30/2023  | 0 - 2                   | <0.00202        | <0.00403           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 199              |
| SW06   | 10/30/2023  | 0 - 2                   | <0.00200        | <0.00399           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 133              |
| SW07   | 10/30/2023  | 0 - 2                   | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 70.6             |
| SW08   | 10/30/2023  | 0 - 2                   | <0.00202        | <0.00404           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 60.9             |
| SW09   | 10/31/2023  | 0 - 2                   | <0.00198        | <0.00397           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 435              |
| SW10   | 10/31/2023  | 0 - 2                   | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 164              |
| SW11   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00399           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 195              |
| SW12   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00401           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 256              |
| SW13   | 11/02/2023  | 0 - 2                   | <0.00199        | <0.00398           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 173              |
| SW14   | 11/02/2023  | 0 - 2                   | <0.00198        | <0.00396           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 190              |
| SW15   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00399           | <49.5           | <49.5           | <49.5           | <49.5           | <49.5             | 202              |
| SW16   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 72.1             |
| SW17   | 11/02/2023  | 0 - 2                   | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 284              |
| SW18   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00401           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 224              |
| SW19   | 11/02/2023  | 0 - 2                   | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 118              |
| SW20   | 11/02/2023  | 0 - 2                   | <0.00200        | <0.00399           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 284              |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Samples in grey indicate soil sample was removed during excavation activities



## APPENDIX A

October 25, 2023, *Remediation Work Plan Update*

---



October 25, 2023

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

**Re: Remediation Work Plan Update  
BEU Connector PW Booster and Mobley Ranch  
Incident Numbers NAPP2213151424 and NAPP2316045229  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan Update (Update)* to document assessment activities completed to date and provide an update on remedial actions to address impacted soil identified at the BEU Connector PW Booster (Site). In addition, this *Update* includes information on a recent release, the Mobley Ranch, which will be addressed concurrently and included as the "Site" for future discussions below.

## **RELEASE SUMMARY AND BACKGROUND**

The Site is located in Unit H, Section 22, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.29070°, -103.86159°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On April 27, 2022, a flanged-end fitting separated from a hose and resulted in the release of 296.34 barrels (bbls) of produced water onto the pipeline right-of-way (ROW) and pasture area. No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on April 28, 2022, and submitted a Release Notification Form C-141 (Form C-141) on May 9, 2022. The release was assigned Incident Number NAPP2213151424.

In August 2022, following approval of a Right-of-Entry (ROE) request for land access from NMSLO, Ensolum personnel completed delineation of the release. The delineation soil sampling results indicated soil contained elevated chloride concentrations in a 30,000 square foot area. A *Remediation Work Plan (Work Plan)* was submitted on October 24, 2022, proposing excavation of impacted soil identified during delineation activities and requested a sampling variance. The *Work Plan* was approved by the NMOCD on February 28, 2023, with the following conditions:

- *Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC.*
- *Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination.*
- *Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.*

XTO Energy, Inc.  
Remediation Work Plan Update  
BEU Connector PW Booster and Mobley Ranch

- *The variance for confirmation samples every 500 is approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH.*

Following approval of the *Work Plan*, XTO requested ROE access from the NMSLO, as well as an Archaeological Records Management Section (ARMS) review to ensure compliance with the Cultural Properties Protection (CPP) Rule, published after submittal of the *Work Plan*. While access to the Site was pending approval, a second release occurred in the area, overlapping Incident Number NAPP2213151424.

On May 27, 2023, a gasket failed on pump discharge piping and resulted in the release of 9.04 barrels (bbls) of produced water onto the pipeline ROW and pasture area. Approximately 2 bbls of produced water were recovered. XTO reported the release to the NMOCD and submitted a Form C-141 on June 9, 2023. The release was assigned Incident Number nAPP2316045229. The release overlapped the release extent for Incident Number NAPP2213151424. XTO proposes to address both releases concurrently.

## CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1. Based on the results of the Site Characterization and approval by the NMOCD, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ACTIVITIES

The Mobley Ranch release was mapped using a handheld Global Positioning System (GPS) unit. Photographic documentation is provided in the Photographic log in Appendix A. The release extent is depicted on Figure 2. The ARMS review was completed and confirmed the area had been previously surveyed and no cultural properties were identified in the vicinity of the release and potential disturbance areas. An NMSLO Cultural Resources Cover Sheet documenting the results of the ARMS review was submitted to the Cultural Resource Office (CRO) of NMSLO on September 21, 2023. In addition, ongoing pipeline operations at the Site delayed the start of excavation; however, XTO recognizes the importance of remediating impacted soil at the Site and as such, pipeline construction work has been postponed in order to complete the excavation of impacted soil.



XTO Energy, Inc.  
Remediation Work Plan Update  
BEU Connector PW Booster and Mobley Ranch

Ensolum personnel returned to the Site on October 17, 2023, to begin excavation of impacted soil. Currently, impacted soil has been excavated with the use of a track hoe and transport vehicles. Due to the extent of underground flowlines within the release extent, a hydrovac has been utilized to identify subsurface lines to prevent another environmental release, which has extended the excavation timeline. An area of approximately 16,200 square feet has been excavated at the time of this report, which includes the proper removal and disposal of approximately 1,000 cubic yards of soil. Photographic documentation of the excavation has been conducted and a Photographic Log is in Appendix A.

**PROPOSED REMEDIATION WORK PLAN**

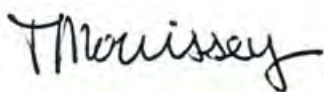
XTO proposes to continue excavation to remove impacted soil identified at the Site. XTO proposes to address Incident Numbers NAPP2213151424 and NAPP2316045229 by completing the following approved remediation activities:

- Excavation of chloride impacted soil. The proposed excavation extent is depicted on Figure 2.
- Collect confirmation samples at the approved sampling frequency of one 5-point composite soil sample every 500 square feet along the excavation floor and sidewalls.
- A total estimated 1,500 cubic yards of chloride impacted soil will be excavated (1,000 cubic yards have been removed to-date). The excavated soil will be transported to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions and re-seeded with the recommended seed mixture as discussed below.

**PROPOSED SCHEDULE**

XTO will continue the excavation and confirmation soil sampling activities and will submit a *Closure Request* within 30 days following the receipt of final laboratory analytical results. If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Tacoma Morrissey, MS  
Senior Geologist



Daniel R. Moir, PG  
Senior Managing Geologist

cc: Garrett Green, XTO  
Tomme Lambert, XTO  
New Mexico State Land Office

Appendices:

- Figure 1 Site Location Map
- Figure 2 Proposed Excavation Extent

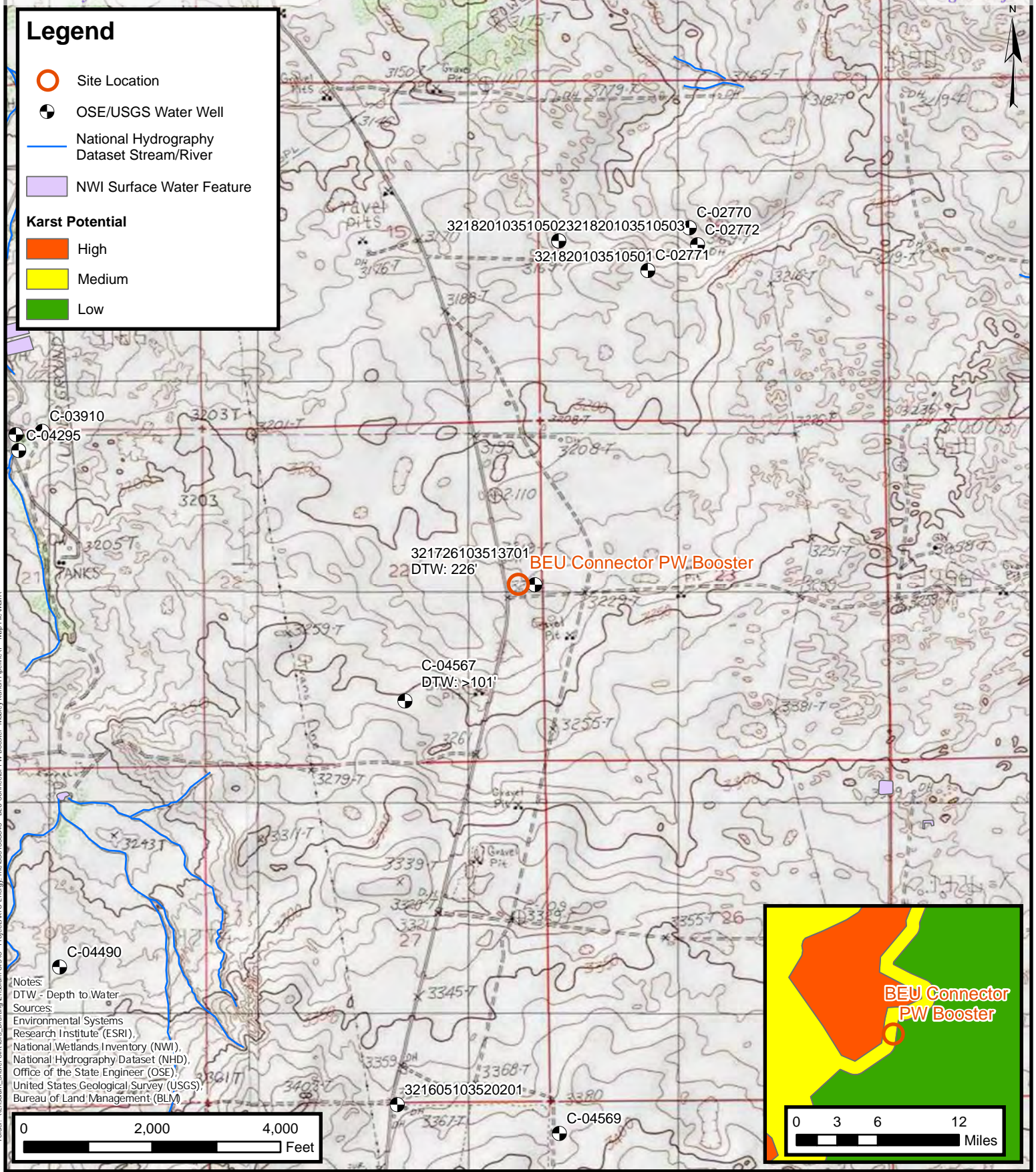
XTO Energy, Inc.  
Remediation Work Plan Update  
BEU Connector PW Booster and Mobley Ranch

- Appendix A Photographic Log
- Appendix B NMOCD Notifications/Correspondence
- Appendix C *Remediation Work Plan* October 24, 2022
- Appendix D Proposed Reclamation Plan



FIGURES








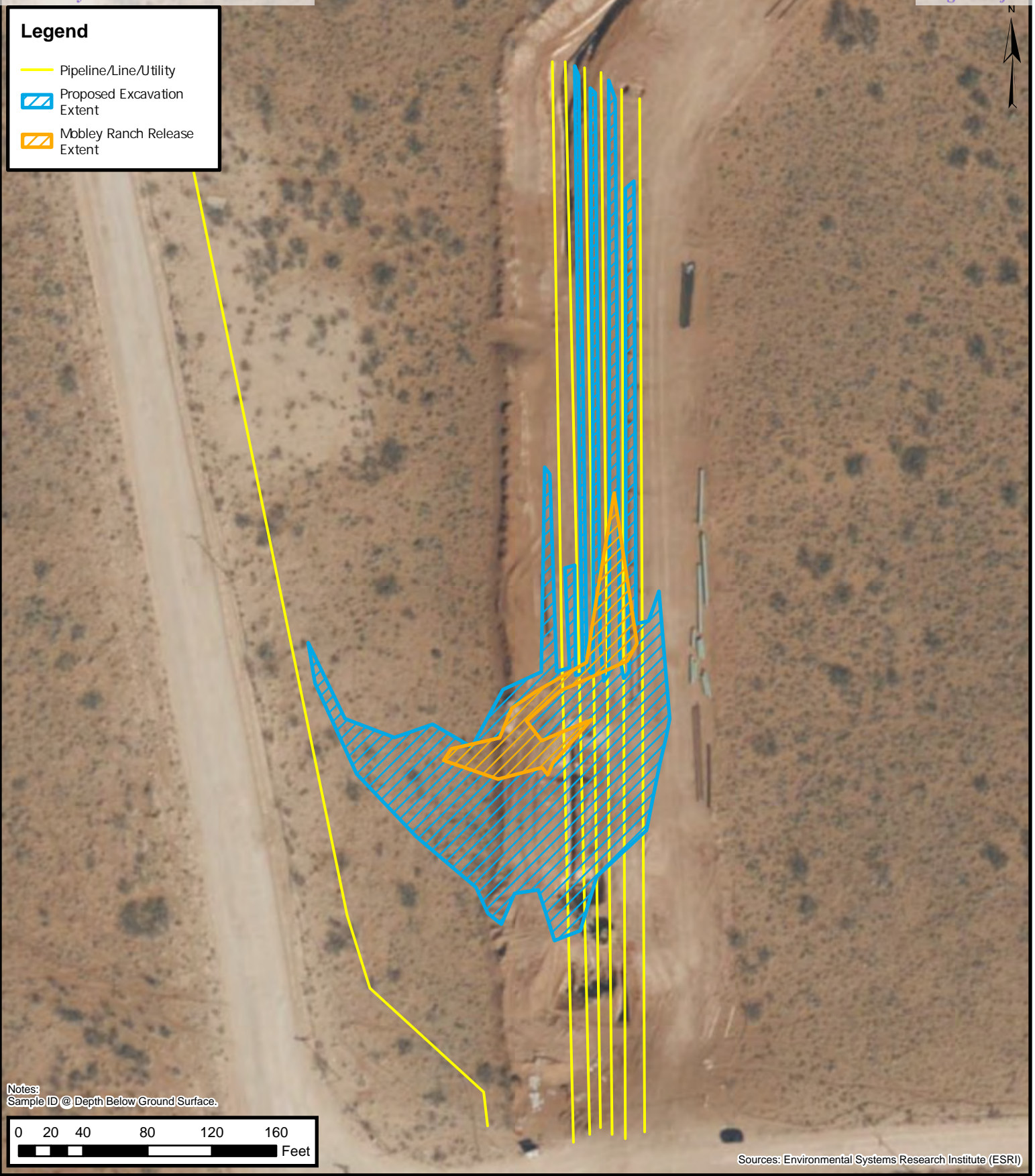
**Site Receptor Map**  
XTO Energy, Inc  
BEU Connector PW Booster Mobley Ranch  
Incident Number: nAPP2213151424 & nAPP2316045229  
Unit H, Sec 22, T23S, R30E  
Eddy Co, New Mexico, United States

**FIGURE**  
**1**

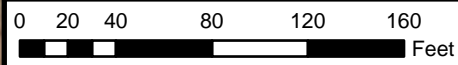


### Legend

-  Pipeline/Line/Utility
-  Proposed Excavation Extent
-  Mobley Ranch Release Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

## Proposed Excavation Extent

XTO Energy, Inc  
BEU Connector PW Booster & Mobley Ranch  
Incident Number: nAPP2213151424 & nAPP2316045229  
Unit H, Sec 22, T23S, R30E  
Eddy Co, New Mexico, United States

## FIGURE 2





APPENDIX A

Photographic Log

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**Photographic Log**

XTO Energy, Inc.

BEU Connector PW Booster and Mobley Ranch

Incident Numbers NAPP2213151424 and NAPP2316045229



Photograph: 1 Date: 4/28/2022  
Description: Soil staining in NAPP2213151424 release  
View: North

Photograph: 2 Date: 8/1/2022  
Description: Soil staining in NAPP2316045229 release  
View: Northeast



Photograph: 3 Date: 10/23/2023  
Description: Ongoing excavation activities  
View: Southwest

Photograph: 4 Date: 10/25/2023  
Description: Ongoing excavation activities  
View: North



## APPENDIX B

### NMOCD Notifications

---

**From:** [Collins, Melanie](#)  
**To:** [Tacoma Morrissey](#); [Ashley Ager](#)  
**Cc:** [Green, Garrett J](#); [DelawareSpills /SM](#)  
**Subject:** FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 153127  
**Date:** Tuesday, February 28, 2023 12:19:07 PM  
**Attachments:** [image001.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Work Plan approval for BEU Connector PW Booster, released 4/27/22.

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Tuesday, February 28, 2023 12:15 PM  
**To:** Collins, Melanie <melanie.collins@exxonmobil.com>  
**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 153127

**External Email - Think Before You Click**

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213151424, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for confirmation samples every 500 ft<sup>2</sup> is approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

**From:** [Collins, Melanie](#)  
**To:** [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](mailto:ocd.enviro@emnrd.nm.gov); [Hamlet, Robert, EMNRD \(Robert.Hamlet@emnrd.nm.gov\)](mailto:Robert.Hamlet@emnrd.nm.gov); [Bratcher, Michael, EMNRD \(mike.bratcher@emnrd.nm.gov\)](mailto:mike.bratcher@emnrd.nm.gov); [Harimon, Jocelyn, EMNRD \(Jocelyn.Harimon@emnrd.nm.gov\)](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
**Cc:** [Tacoma Morrissey](#); [Green, Garrett J](#); [Ashley Ager](#); [DelawareSpills /SM](#)  
**Subject:** XTO - Extension Request - BEU Connector PW Booster - Incident Number NAPP2213151424  
**Date:** Friday, May 26, 2023 10:02:15 AM  
**Attachments:** [image001.png](#)

---

[ **\*\*EXTERNAL EMAIL\*\*** ]

All,

XTO is requesting an extension of the current deadline of May 29, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the BEU Connector PW Booster (Incident Number NAPP2213151424). The release occurred on April 27, 2022, and fluids were released into a pipeline right-of-way (ROW). Initial site assessment and delineation sampling has been completed at the site. A work plan was submitted to the OCD on October 24, 2022 and approved by the NMOCD on February 28, 2023. A Right-of-Entry (ROE) permit must be executed and approved by the State Land Office (SLO) to access the ROW. In order to obtain the approved ROW, complete the remediation work and submit a closure report XTO requests a 90-day extension of this deadline until August 28, 2023.

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Collins, Melanie](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Cc:** [Green, Garrett J](#); [Ben Bellil](#); [Tacoma Morrissey](#); [Lambert, Tommee L](#); [DelawareSpills /SM](#)  
**Subject:** RE: [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)  
**Date:** Thursday, October 12, 2023 3:26:07 PM  
**Attachments:** [image001.png](#)

Some people who received this message don't often get email from [shelly.wells@emnrd.nm.gov](mailto:shelly.wells@emnrd.nm.gov). [Learn why this is important](#)

[\*\*EXTERNAL EMAIL\*\*]

Hi Melanie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. When reporting sampling at multiple locations it is required to provide the anticipated start time for each location. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Thursday, October 12, 2023 2:14 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [bbelill@ensolum.com](mailto:bbelill@ensolum.com); Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Lambert, Tommee L <[tommee.l.lambert@exxonmobil.com](mailto:tommee.l.lambert@exxonmobil.com)>; DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>  
**Subject:** [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of October 16,

2023.

Monday – October 16, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 18 TWR Sat Battery / nAPP2230551957

Tuesday - October 17, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Wednesday - October 18, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thursday - October 19, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 23 Dog Town Draw 154H / nAPP2316446382

Friday - October 20, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Collins, Melanie](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Hall, Brittany, EMNRD](#)  
**Cc:** [Green, Garrett J](#); [Ben Belill](#); [Lambert, Tommee L](#); [DelawareSpills /SM](#); [Tacoma Morrissey](#)  
**Subject:** RE: [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23  
**Date:** Wednesday, October 18, 2023 4:58:27 PM  
**Attachments:** [image001.png](#)

Some people who received this message don't often get email from [shelly.wells@emnrd.nm.gov](mailto:shelly.wells@emnrd.nm.gov). [Learn why this is important](#)

[\*\*EXTERNAL EMAIL\*\*]

Hi Melanie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Wednesday, October 18, 2023 3:16 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [bbelill@ensolum.com](mailto:bbelill@ensolum.com); Lambert, Tommee L <[tommee.l.lambert@exxonmobil.com](mailto:tommee.l.lambert@exxonmobil.com)>; DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>  
**Subject:** [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ok, Shelly, ask and you shall receive—haha! Let me know if you'd like them sent individually in the future, or if it is ok to send in bulk like this.

XTO plans to complete final sampling activities at the sites listed below for the week of October 23.2023 between 8 a.m. and 5 p.m. Please reach out with questions or concerns.

Thank you!

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | BEU Connector PW Booster      |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2213151424                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.23.23-10.27.23)    |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Mobley Ranch Pipeline         |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2316045229                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.23.23-10.27.23)    |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | JRU 91 Flowline               |
| Location                           | K-36-22S-30E; Eddy County, NM |
| Incident ID                        | NAB1515234386                 |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.23.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | NA                            |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|           |                |
|-----------|----------------|
| Site Name | Remuda 4-24-20 |
|-----------|----------------|

|                                    |                               |
|------------------------------------|-------------------------------|
| Location                           | A-04-24S-30E; Eddy County, NM |
| Incident ID                        | nAPP2233351770                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.23.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | NA                            |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | PLU CVX JV BS 008H            |
| Location                           | N-14-25S-30E; Eddy County, NM |
| Incident ID                        | nAB1602154960                 |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.24.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Poker Lake Unit 315H          |
| Location                           | P-24-24S-30E; Eddy County, NM |
| Incident ID                        | nAPP2324233432                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 3 Days 10.25.23-10.27.23      |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

Thank you,

*Melanie Collins*





**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Collins, Melanie Suzanne](#)  
**Cc:** [Green, Garrett J](#); [DelawareSpills /SM](#); [Ben Belill](#); [Ashley Ager](#); [Tacoma Morrissey](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** Final Extension - XTO - BEU Connector PW Booster & Mobley Ranch Pipeline - Incident Numbers (nAPP2213151424 & nAPP2316045229)  
**Date:** Thursday, August 24, 2023 8:53:03 AM  
**Attachments:** [image003.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #**NAPP2213151424 & NAPP2316045229**

**Melanie,**

Your request for an extension to **October 27th, 2023** is approved. This will be the **Final Extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Wednesday, August 23, 2023 4:25 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] XTO - Extension Request - BEU Connector PW Booster & Mobley Ranch Pipeline - Incident Numbers (nAPP2213151424 & nAPP2316045229)

---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Wednesday, August 23, 2023 3:02 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [DelawareSpills /SM](#) <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; [bbelill@ensolum.com](#); [Ashley Ager](#) <[aager@ensolum.com](mailto:aager@ensolum.com)>; [Tacoma Morrissey](#) <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Extension Request - BEU Connector PW Booster & Mobley Ranch Pipeline

- Incident Numbers (nAPP2213151424 & nAPP2316045229)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension of the current deadline of August 28, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the BEU Connector PW Booster site (Incident Number nAPP2213151424) and an extension of the current deadline of August 25, 2023, for the Mobley Ranch pipeline release (Incident Number nAPP2316045229). The BEU Connector release occurred on April 27, 2022, and as a result, fluids were released into a pasture area off-pad. An initial site assessment and delineation sampling has been completed for this release. A Remediation Work Plan was submitted to the OCD on October 24, 2022, and approved by the division on February 28, 2023. The second release (Mobley Ranch Pipeline) occurred on May 27, 2023, and overlapped the BEU Connector PW Booster release. A Right-of-Entry (ROE) permit was approved by the State Land Office (SLO) for both releases on August 21, 2023, and an excavation has been scheduled with third-party contractors. In order to complete the excavation that now includes a second release, conduct confirmation sampling, review laboratory analytical data, and to submit a remediation work plan or closure report, XTO hereby requests a 60-day extension of the aforementioned deadlines to October 27, 2023.

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756



## APPENDIX C

### *Remediation Work Plan October 24, 2022*

---



October 24, 2022

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

**Re: Remediation Work Plan  
BEU Connector PW Booster  
Incident Number NAPP2213151424  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the BEU Connector PW Booster (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following Work Plan proposes to excavate impacted soil within the top 4 feet of the release extent.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit H, Section 22, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.29070° N, 103.86159° W) and is associated with oil and gas exploration and production operations on New Mexico State Land (SLO).

On April 27, 2022, a flanged-end fitting separated from a hose and resulted in the release of 296.34 barrels (bbls) of produced water onto the pipeline right-of-way (ROW) and pasture area. No fluids were recovered. XTO immediately reported the release to the NMOCD via email on April 28, 2022 and submitted a Release Notification Form C-141 on May 9, 2022. The release was assigned Incident Number NAPP2213151424.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On October 26, 2021, soil boring (C-4567) was advanced to a depth of 101 feet bgs utilizing a hollow stem auger rig. The location of the borehole is approximately 0.48 miles southwest of the release and is depicted on Figure 1. The well log recorded the boring as a dry hole. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 5,613 feet southwest of the Site. The Site is greater than 200 feet from a lakebed,

XTO Energy, Inc.  
Remediation Work Plan  
BEU Connector PW Booster

sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On June 6, 2022 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel collected nine soil samples (SS01 through SS09) within the release extent from a depth of 0.5 feet bgs to assess the extent of impacted soil. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

XTO submitted a Right-of-Entry request for land access on the SLO land. Following approval of the request, delineation activities were conducted at the Site to assess the lateral and vertical extent of impacted soil. On August 1, 2022, boreholes BH01 through BH09 were advanced via hand auger and hydrovacuum within the release extent. The boreholes were advanced to a maximum depth of 4 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 1-foot bgs to 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The soil samples were handled and analyzed as described above. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

## LABORATORY ANALYTICAL RESULTS



XTO Energy, Inc.  
Remediation Work Plan  
BEU Connector PW Booster

Laboratory analytical results for all soil samples collected indicated that Benzene, BTEX, and TPH concentrations were below the Site Closure Criteria. No hydrocarbon impacted soil was identified as a result of the release.

Laboratory analytical results for the delineation soil samples SS01/BH01 through SS06/BH06, and SS09/BH09 indicated that chloride concentrations exceeded the Closure Criteria at depths ranging from 0.5 feet to 1-foot bgs. The terminal depth sample from each borehole, collected at 4 feet bgs, was compliant with the Closure Criteria and reclamation requirement and successfully defined the vertical extent of impacted soil. Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D. NMOCD notifications are presented in Appendix E.

## PROPOSED REMEDIATION WORK PLAN

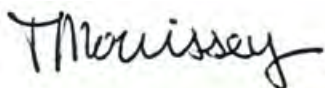
The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 30,000 square foot area and extends to depths ranging from 0.5 feet to 1-foot bgs. XTO proposes to complete the following remediation activities:

- Excavation of chloride impacted soil to a depth of 1-foot bgs. Excavation will proceed laterally until sidewall samples confirm chloride concentrations are compliant with the Closure Criteria in the top four feet. The proposed excavation extent is depicted on Figure 3.
- Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes five-point composite samples to be collected at a sampling frequency of 500 square feet along the excavation floor and sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 150 samples (200 square feet) to approximately 60 samples. In areas where the excavation is at 1-foot bgs or less, the sidewall will be incorporated into the floor sample aliquots. The soil samples will be handled as described above and analyzed for chloride. The soil samples will be analyzed for chloride only since benzene, BTEX, or TPH concentrations were not identified as a constituent of concern (COC) in the soil samples.
- An estimated 1,500 cubic yards of chloride impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions and re-seeded with the recommended BLM seed mixture.

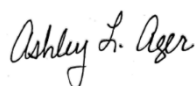
XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD.

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

Sincerely,  
**Ensolum, LLC**



Tacoma Morrissey, MS



Ashley Ager, PG, MS

XTO Energy, Inc.  
Remediation Work Plan  
BEU Connector PW Booster

Senior Geologist

Program Director

cc: Garrett Green, XTO  
Shelby Pennington, XTO  
New Mexico State Land Office

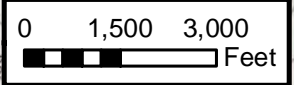
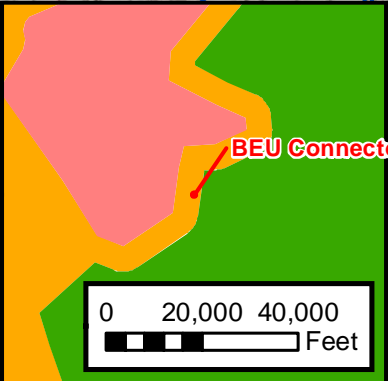
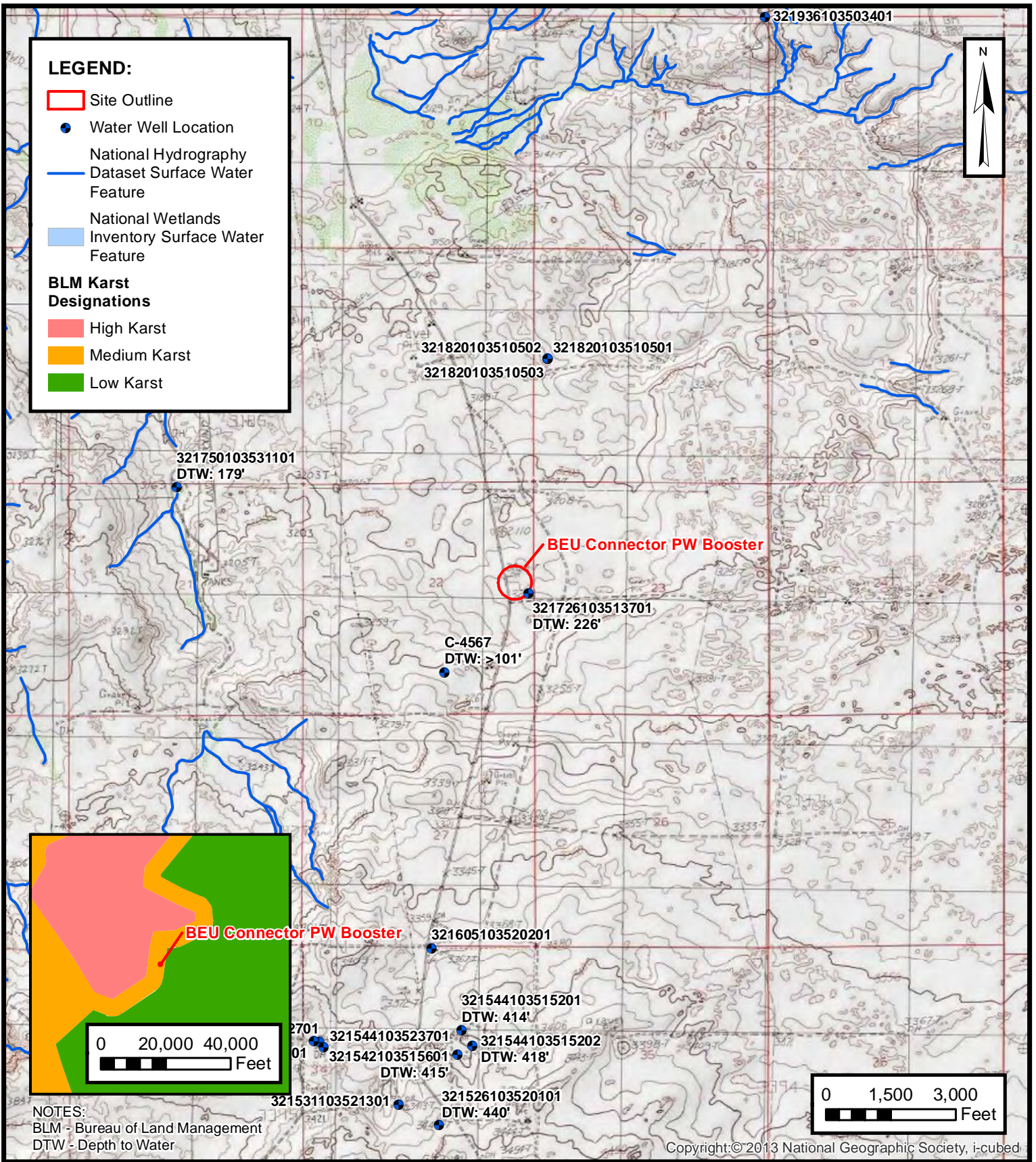
Appendices:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations
- Figure 3 Proposed Excavation Extent
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic / Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications/Correspondence



FIGURES





**NOTES:**  
 BLM - Bureau of Land Management  
 DTW - Depth to Water

Copyright: © 2013 National Geographic Society, i-cubed

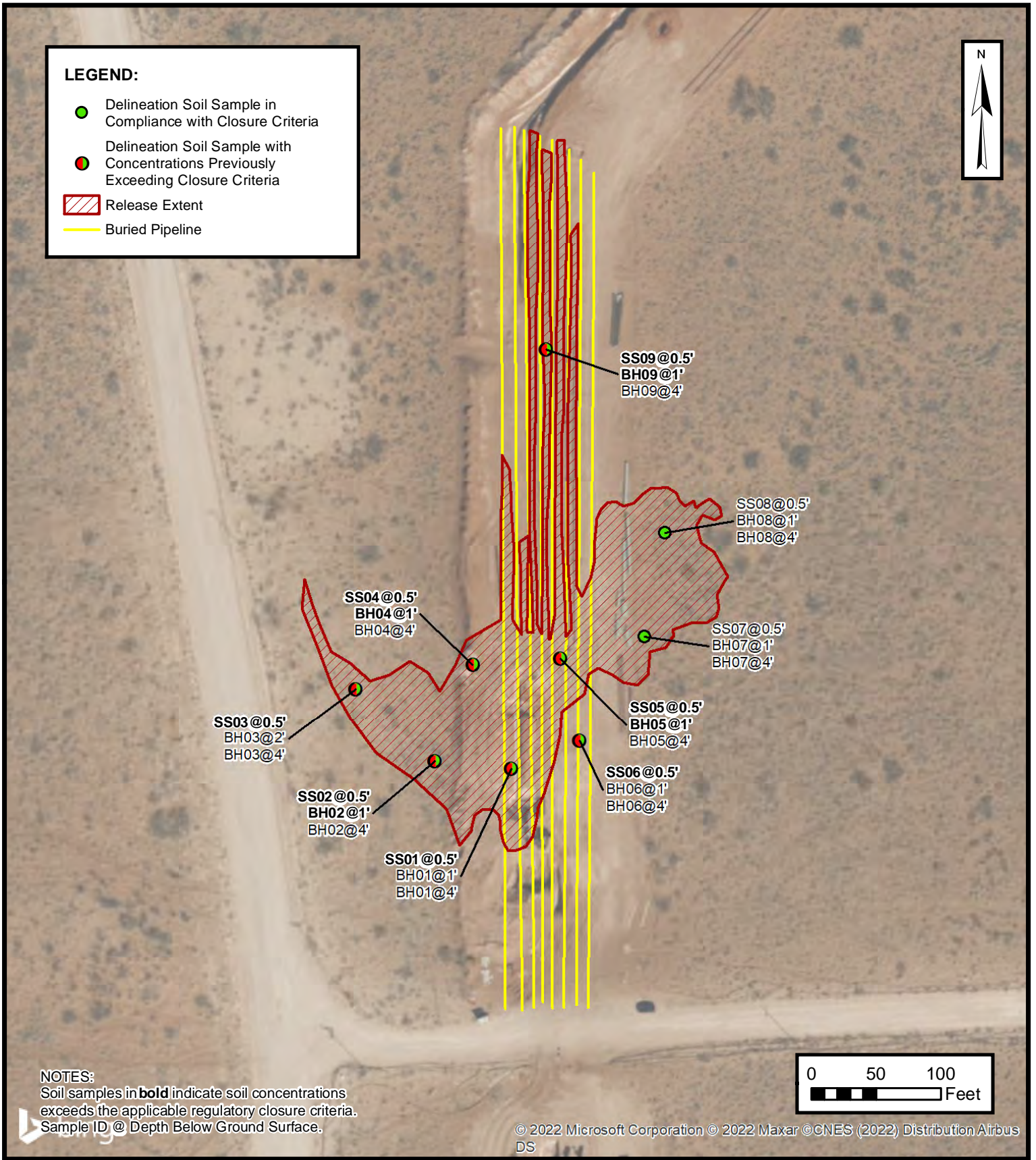


**SITE RECEPTOR MAP**

XTO ENERGY, INC  
 BEU CONNECTOR PW BOOSTER  
 NAPP2213151424  
 Unit H, Sec 22, T23S, R30E  
 Eddy County, New Mexico

**FIGURE**  
**1**



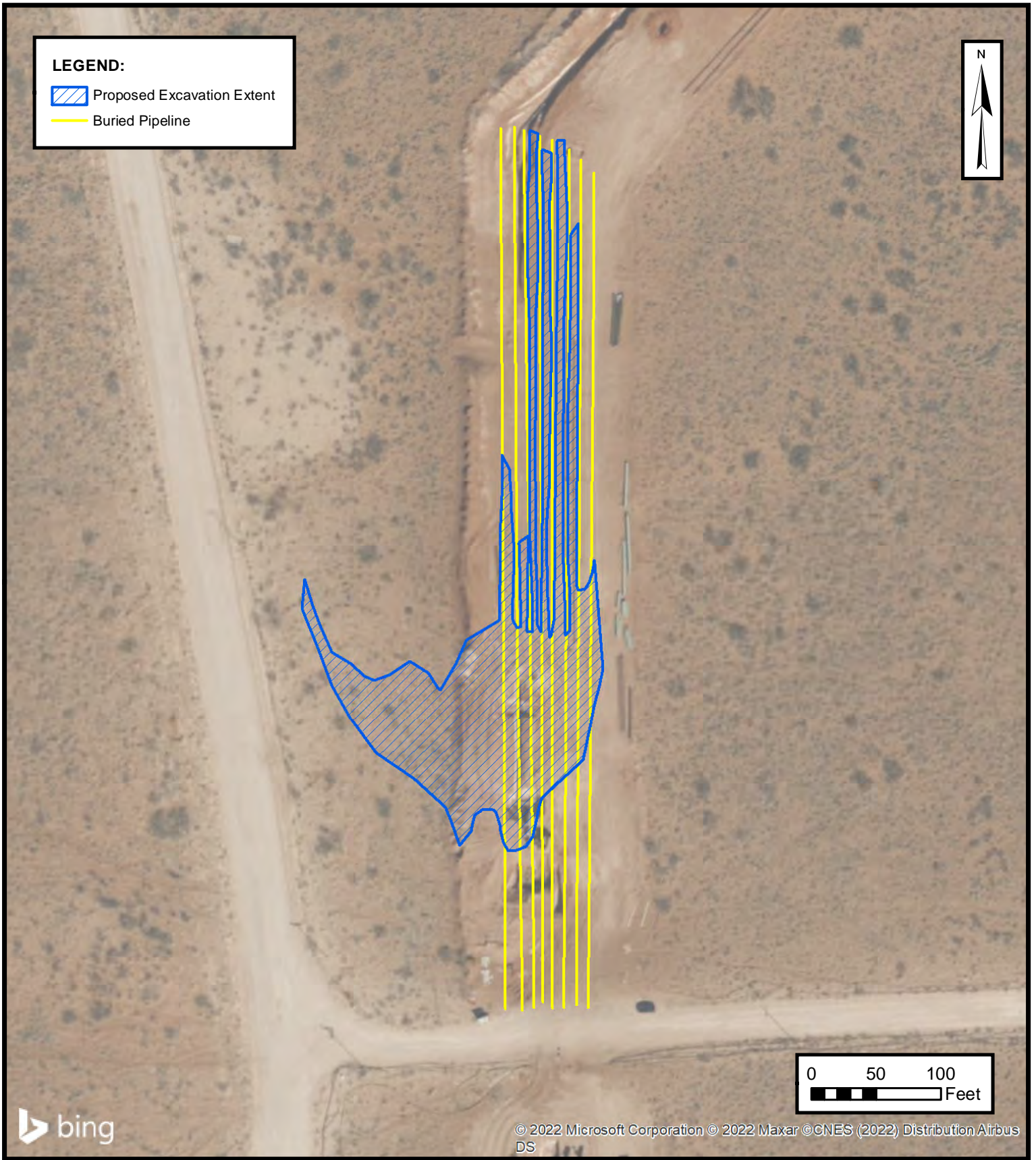


**SOIL SAMPLE LOCATIONS**

XTO ENERGY, INC  
 BEU CONNECTOR PW BOOSTER  
 NAPP2213151424  
 Unit H, Sec 22, T23S, R30E  
 Eddy County, New Mexico

**FIGURE**  
**2**





**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

**PROPOSED EXCAVATION AREA**

XTO ENERGY, INC  
BEU CONNECTOR PW BOOSTER  
NAPP2213151424  
Unit H, Sec 22, T23S, R30E  
Eddy County, New Mexico

**FIGURE**  
**3**



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
XTO Energy, Inc.  
BEU Connector PW Booster  
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) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| <b>NMOCDC Table 1 Closure Criteria (NMAC 19.15.29)</b> |             |                         | <b>10</b>       | <b>50</b>          | <b>NE</b>       | <b>NE</b>       | <b>NE</b>       | <b>1,000</b>    | <b>2,500</b>      | <b>20,000</b>    |
| <b>Delineation Soil Samples</b>                        |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01   | 06/06/2022  | 0.5                     | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>5,120</b>     |
| BH01   | 08/01/2022  | 1                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 107              |
| BH01   | 08/01/2022  | 4                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 41.5             |
| SS02   | 06/06/2022  | 0.5                     | <0.00200        | <0.00401           | <49.9           | 54.1            | <49.9           | 54.1            | 54.1              | <b>4,270</b>     |
| BH02   | 08/01/2022  | 1                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>1,770</b>     |
| BH02   | 08/01/2022  | 4                       | <0.00202        | <0.00403           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 530              |
| SS03   | 06/06/2022  | 0.5                     | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>6,140</b>     |
| BH03   | 08/01/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 518              |
| BH03   | 08/01/2022  | 4                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 17.6             |
| SS04   | 06/06/2022  | 0.5                     | <0.00200        | <0.00400           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>7,100</b>     |
| BH04   | 08/01/2022  | 1                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>1,570</b>     |
| BH04   | 08/01/2022  | 4                       | <0.00200        | <0.00399           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 25.6             |
| SS05   | 06/06/2022  | 0.5                     | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>5,020</b>     |
| BH05   | 08/01/2022  | 1                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>4,300</b>     |
| BH05   | 08/01/2022  | 4                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 18.2             |
| SS06   | 06/06/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>6,310</b>     |
| BH06   | 08/01/2022  | 1                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 34.5             |
| BH06   | 08/01/2022  | 4                       | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 17.9             |
| SS07   | 06/06/2022  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 17.3             |
| BH07   | 08/01/2022  | 1                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 11.9             |
| BH07   | 08/01/2022  | 4                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 30.7             |
| SS08   | 06/06/2022  | 0.5                     | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 16.2             |
| BH08   | 08/01/2022  | 1                       | <0.00198        | <0.00396           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 6.59             |
| BH08   | 08/01/2022  | 4                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 10.9             |



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
XTO Energy, Inc.  
BEU Connector PW Booster  
Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| SS09   | 06/06/2022  | 0.5                     | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>3,970</b>     |
| BH09   | 08/01/2022  | 1                       | <0.00202        | <0.00403           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>3,250</b>     |
| BH09   | 08/01/2022  | 4                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <50.0           | <49.9           | <49.9             | 90.7             |

Notes:

bgs: below ground surface  
 mg/kg: milligrams per kilogram  
 NMOCD: New Mexico Oil Conservation Division  
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
 Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 ORO: Oil Range Organics  
 TPH: Total Petroleum Hydrocarbon



## APPENDIX A

### Referenced Well Records

---





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

|   |   |                              |   |  |  |  |                                |                    |
|---|---|------------------------------|---|--|--|--|--------------------------------|--------------------|
| <b>1. GENERAL AND WELL LOCATION</b>   | OSE POD NO. (WELL NO.)<br>POD1 (BH-01)  |                              | WELL TAG ID NO.<br>n/a                                  |  | OSE FILE NO(S).<br>C-4567                      |  |                                |                    |
|   | WELL OWNER NAME(S)<br>Strata Production Company   |                              |   |  | PHONE (OPTIONAL)<br>575-622-1127               |  |                                |                    |
|   | WELL OWNER MAILING ADDRESS<br>1301 N. Sycamore Ave  |                              |   |  | CITY<br>Roswell                                | STATE<br>NM  | ZIP<br>88201                   |                    |
|   | WELL LOCATION (FROM GPS)  | LATITUDE                     | DEGREES<br>32   | MINUTES<br>17  | SECONDS<br>8.70                                | * ACCURACY REQUIRED: ONE TENTH OF A SECOND                           |                                |                    |
|   |   | LONGITUDE                    | 103   | 52   | 2.55   | * DATUM REQUIRED: WGS 84   |                                |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>NW SW SE Sec. 22 T23S R30E, NMPM |   |                              |   |  |  |  |                                |                    |
| <b>2. DRILLING &amp; CASING INFORMATION</b>   | LICENSE NO.<br>1249   |                              | NAME OF LICENSED DRILLER<br>Jackie D. Atkins            |  |  | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |                                |                    |
|   | DRILLING STARTED<br>10/26/2021  | DRILLING ENDED<br>10/26/2021 | DEPTH OF COMPLETED WELL (FT)<br>temporary well material |  | BORE HOLE DEPTH (FT)<br>101                    | DEPTH WATER FIRST ENCOUNTERED (FT)<br>n/a                            |                                |                    |
|   | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)   |                              |   |  |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>n/a                     |                                |                    |
|   | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:  |                              |   |  |  |  |                                |                    |
|   | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger |                              |   |  |  |  |                                |                    |
|   | DEPTH (feet bgl)  |                              | BORE HOLE DIAM (inches)                                 | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches)   | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|   | FROM  | TO                           |   |  |  |  |                                |                    |
|   | 0   | 101                          | ±8.5  | Boring- HSA  | --   | --   | --                             | --                 |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
| <b>3. ANNULAR MATERIAL</b>  | DEPTH (feet bgl)  |                              | BORE HOLE DIAM. (inches)                                | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL                      | AMOUNT (cubic feet)                            | METHOD OF PLACEMENT  |                                |                    |
|   | FROM  | TO                           |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |
|   |   |                              |   |  |  |  |                                |                    |

OSE FILE NO. 15 2021 061106

|                                |                            |  |  |
|--------------------------------|----------------------------|--|--|
| FOR OSE INTERNAL USE           |                            | WR-20 WELL RECORD & LOG (Version 06/30/17) |  |
| FILE NO. <b>C-4567</b>         | POD NO.                    | TRN NO. <b>709185</b>                      |  |
| LOCATION <b>23S.30E.22.431</b> | WELL TAG ID NO. <b>---</b> | PAGE 1 OF 2                                |  |




|   | DEPTH (feet bgl)                                       |     | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|--|-----|------------------|--|---------------------------|---|
|   | FROM   | TO  |                  |  |                           |   |
| 4. HYDROGEOLOGIC LOG OF WELL  | 0  | 19  | 19               | Caliche, with fine-grained sand, White/ Tan  | Y    ✓ N                  |   |
|   | 19   | 54  | 35               | Sand, Fine-grained Poorly-graded, Reddish Brown  | Y    ✓ N                  |   |
|   | 54   | 90  | 36               | Clay, with sand, fine-grained poorly-graded, Brown   | Y    ✓ N                  |   |
|   | 90   | 101 | 11               | Caliche, with with sand, fine-grained poorly-graded, Tan   | Y    ✓ N                  |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   |  |     |                  |  | Y    N                    |   |
|   | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: |     |                  |  |                           | TOTAL ESTIMATED WELL YIELD (gpm):             |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: |  |     |                  |  | 0.00                      |   |

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

|              |   |                                   |
|--------------|---|-----------------------------------|
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: |                                   |
|              | <br>_____<br>SIGNATURE OF DRILLER / PRINT SIGNEE NAME  | Jackie D. Atkins<br>_____<br>DATE |

USE DJT NOV 16 2021 PM 1:04


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





## APPENDIX B


### Lithologic Soil Sampling Logs

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|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH01                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 9,732          | 0.2                                 | N        | SS01                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| D   | <168           | 0.0                                 | N        | BH01                    | 1'                    | 1'                 | SP-S             | 1'-3', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| D   | <168           | 0.0                                 | N        |                         | 2'                    | 2'                 |                  |  |
| D   | <168           | 0.0                                 | N        |                         | 3'                    | 3'                 | CCHE             | 3'-4', CALICHE, dry, tan-off white, poorly consolidated, very silty, no stain, no odor.                  |
| D   | <168           | 0.0                                 | N        | BH01                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |


|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH02                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 7,672          | 0.5                                 | N        | SS02                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | 2284           | 0.0                                 | N        | BH02                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | 240.8          | 0.0                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | 324.8          | 0.0                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | 532            | 0.0                                 | N        | BH02                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |


|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH03                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 9,732          | 1.9                                 | N        | SS03                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | <168           | 0.0                                 | N        |                         | 1'                    | 1'                 | SP-S             | 1'-2', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | 532.0          | 0.0                                 | N        | BH03                    | 2'                    | 2'                 | CCHE             | 2'-4', CALICHE, dry, tan-off white, poorly consolidated, very silty, no stain, no odor.                  |
| Dry   | <168           | 0.0                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.0                                 | N        | BH03                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |


|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH04                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 8,299          | 1.1                                 | N        | SS04                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | 1,864          | 0.0                                 | N        | BH04                    | 1'                    | 1'                 | SP-S             | 1'-3', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | 476.0          | 0.0                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        |                         | 3'                    | 3'                 | CCHE             | 3'-4', CALICHE, dry, tan-off white, poorly consolidated, very silty, no stain, no odor.                  |
| Dry   | <168           | 0.1                                 | N        | BH04                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |




|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH05                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 5,499          | 0.0                                 | N        | SS05                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | >3466          | 0.1                                 | N        | BH05                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | 2111           | 0.5                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.5                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        | BH05                    | 4'                    | 4'                 |                  |  |
|   |                |                                     |          |                         |                       |                    | TD               | Total depth at 4' bgs.   |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH06                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 7,672          | 0.2                                 | N        | SS06                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | <168           | 0.0                                 | N        | BH06                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | <168           | 0.1                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.2                                 | N        | BH06                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |

|    |                | Sample Name: BH07                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | <168           | 0.2                                 | N        | SS07                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | <168           | 0.0                                 | N        | BH07                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | <168           | 0.5                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.4                                 | N        | BH07                    | 4'                    | 4'                 |                  |  |
|   |                |                                     |          |                         |                       |                    | TD               | Total depth at 4' bgs.   |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH08                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | <168           | 0.0                                 | N        | SS08                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | <168           | 0.1                                 | N        | BH08                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | <168           | 0.0                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.3                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        | BH08                    | 4'                    | 4'                 | TD               | Total depth at 4' bgs.   |

|  <b>ENSOLUM</b><br>Environmental, Engineering and<br>Hydrogeologic Consultants                               |                | Sample Name: BH09                   |          | Date: 08/01/22          |                       |                    |                  |  |
|---|----------------|-------------------------------------|----------|-------------------------|-----------------------|--------------------|------------------|--|
|   |                | Site Name: BEU Connector PW Booster |          |                         |                       |                    |                  |  |
|   |                | Incident Number: nAPP2213151424     |          |                         |                       |                    |                  |  |
|   |                | Job Number: 03E1558045              |          |                         |                       |                    |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |                                     |          | Logged By: Conner Shore |                       | Method: HVAC/Auger |                  |  |
| Coordinates: 32.29070, -103.86159   |                |                                     |          | Hole Diameter: N/A      |                       | Total Depth: 4'    |                  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. |                |                                     |          |                         |                       |                    |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm)                         | Staining | Sample ID               | Sample Depth (ft bgs) | Depth (ft bgs)     | USCS/Rock Symbol | Lithologic Descriptions  |
| D   | 4,799          | 0.1                                 | N        | SS09                    | 0.5'                  |                    | SP-SM            | 0-1', SILTY SAND, dry, reddish brown, poorly graded, fine grain, no stain, no odor.                      |
| Dry   | 3,225          | 0.2                                 | N        | BH09                    | 1'                    | 1'                 | SP-S             | 1'-4', SANDSTONE, dry, reddish brown, poorly graded, fine grain, poorly consolidated, no stain, no odor. |
| Dry   | 1,002          | 0.1                                 | N        |                         | 2'                    | 2'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        |                         | 3'                    | 3'                 |                  |  |
| Dry   | <168           | 0.1                                 | N        | BH09                    | 4'                    | 4'                 |                  |  |
|   |                |                                     |          |                         |                       |                    | TD               | Total depth at 4' bgs.   |



## APPENDIX C

### Photographic Log

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**Photographic Log**  
XTO Energy, Inc.  
BEU Connector PW Booster  
Incident No. NAPP2213151424



Photograph: 1 Date: 8/1/2022  
Description: Pothole delineation BH01.  
View: South



Photograph: 2 Date: 8/1/2022  
Description: Pothole delineation BH05.  
View: South



Photograph: 3 Date: 8/1/2022  
Description: Pothole delineation BH02.  
View: Northeast



Photograph: 4 Date: 8/1/2022  
Description: Pothole delineation BH09.  
View: South



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing  
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## ANALYTICAL REPORT

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

Laboratory Job ID: 890-2704-1  
Laboratory Sample Delivery Group: 03E1558045  
Client Project/Site: BEU Connector PW Booster

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

Attn: Tacoma Morrissey

Authorized for release by:  
8/11/2022 7:08:33 PM

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



### LINKS

Review your project  
results through



Have a Question?



Visit us at:

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

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

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



Client: Ensolum  
Project/Site: BEU Connector PW Booster

Laboratory Job ID: 890-2704-1  
SDG: 03E1558045

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## Definitions/Glossary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Job ID: 890-2704-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2704-1****Receipt**

The samples were received on 8/2/2022 9:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH01 (890-2704-2). 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: BH02 (890-2704-4). 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 880-31731 and analytical batch 880-31678 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-31767 and analytical batch 880-31850 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-31850/20), (CCV 880-31850/33), (LCS 880-31767/1-A) and (890-2704-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-31767/2-A). Evidence of matrix interferences is not obvious.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-2704-A-1-C MS) and (890-2704-A-1-D MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BH02 (890-2704-3). 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: BH02 (890-2704-4). 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: BH04 (890-2704-7) and BH04 (890-2704-8). 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: BH06 (890-2704-11). 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: BH08 (890-2704-15). 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: BH09 (890-2704-17) and BH09

### Case Narrative

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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#### Job ID: 890-2704-1 (Continued)

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#### Laboratory: Eurofins Carlsbad (Continued)

(890-2704-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31470 and analytical batch 880-31531 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.

#### HPLC/IC

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

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH01**

**Lab Sample ID: 890-2704-1**

Date Collected: 08/01/22 09:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F1      | 0.00199 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 07:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 129       |           | 70 - 130 | 08/08/22 13:00 | 08/10/22 07:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 79        |           | 70 - 130 | 08/08/22 13:00 | 08/10/22 07:05 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 12:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U F1      | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 12:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 12:07 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 72        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 12:07 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 12:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 107    |           | 4.98 | mg/Kg |   |          | 08/11/22 09:13 | 1       |

**Client Sample ID: BH01**

**Lab Sample ID: 890-2704-2**

Date Collected: 08/01/22 09:15

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 10:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 131       | S1+       | 70 - 130 | 08/08/22 10:46 | 08/09/22 10:47 | 1       |

Eurofins Carlsbad

### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Client Sample ID: BH01**

**Lab Sample ID: 890-2704-2**

Date Collected: 08/01/22 09:15

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 10:47 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:13 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:13 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:13 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 71        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:13 | 1       |
| o-Terphenyl    | 85        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:13 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 41.5   |           | 4.99 | mg/Kg |   |          | 08/11/22 09:22 | 1       |

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-3**

Date Collected: 08/01/22 09:25

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:14 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127       |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 11:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 11:14 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

Eurofins Carlsbad

### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-3**

Date Collected: 08/01/22 09:25

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:34 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:34 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:34 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 65        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:34 | 1       |
| o-Terphenyl    | 76        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:34 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1770   |           | 25.0 | mg/Kg |   |          | 08/11/22 09:31 | 5       |

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-4**

Date Collected: 08/01/22 09:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 11:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 | 08/08/22 10:46 | 08/09/22 11:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 11:40 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 13:56 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 61        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:56 | 1       |
| o-Terphenyl    | 70        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 13:56 | 1       |

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### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-4**

Date Collected: 08/01/22 09:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 530    |           | 4.95 | mg/Kg |   |          | 08/11/22 09:40 | 1       |

**Client Sample ID: BH03**

**Lab Sample ID: 890-2704-5**

Date Collected: 08/01/22 10:15

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 2'

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

| Analyte                     | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00200         | U                | 0.00200       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| Toluene                     | <0.00200         | U                | 0.00200       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| Ethylbenzene                | <0.00200         | U                | 0.00200       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| m-Xylene & p-Xylene         | <0.00399         | U                | 0.00399       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| o-Xylene                    | <0.00200         | U                | 0.00200       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| Xylenes, Total              | <0.00399         | U                | 0.00399       | mg/Kg |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 130              |                  | 70 - 130      |       |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |
| 1,4-Difluorobenzene (Surr)  | 84               |                  | 70 - 130      |       |   | 08/08/22 10:46  | 08/09/22 12:06  | 1              |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 14:18  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 14:18  | 1              |
| OII Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 14:18  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 86               |                  | 70 - 130      |       |   | 08/04/22 09:22  | 08/05/22 14:18  | 1              |
| o-Terphenyl                          | 101              |                  | 70 - 130      |       |   | 08/04/22 09:22  | 08/05/22 14:18  | 1              |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 518    |           | 4.97 | mg/Kg |   |          | 08/11/22 10:08 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH03**

**Lab Sample ID: 890-2704-6**

Date Collected: 08/01/22 10:25

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:33 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 125       |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 12:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 12:33 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 14:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 14:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 14:40 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 14:40 | 1       |
| o-Terphenyl    | 105       |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 14:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.6   |           | 5.02 | mg/Kg |   |          | 08/11/22 10:17 | 1       |

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-7**

Date Collected: 08/01/22 10:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 10:46 | 08/09/22 12:59 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 12:59 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-7**

Date Collected: 08/01/22 10:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 95        |           | 70 - 130 | 08/08/22 10:46 | 08/09/22 12:59 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:01 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 69        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:01 | 1       |
| o-Terphenyl    | 83        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:01 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1570   |           | 25.3 | mg/Kg |   |          | 08/11/22 10:27 | 5       |

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-8**

Date Collected: 08/01/22 10:55

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 03:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 03:28 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-8**

Date Collected: 08/01/22 10:55

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:23 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 64        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:23 | 1       |
| o-Terphenyl    | 75        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:23 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 25.6   |           | 4.99 | mg/Kg |   |          | 08/11/22 10:36 | 1       |

**Client Sample ID: BH05**

**Lab Sample ID: 890-2704-9**

Date Collected: 08/01/22 12:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 03:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 03:07 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 15:45 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 77        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:45 | 1       |
| o-Terphenyl    | 94        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 15:45 | 1       |

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### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Client Sample ID: BH05**

**Lab Sample ID: 890-2704-9**

Date Collected: 08/01/22 12:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4300   |           | 50.1 | mg/Kg |   |          | 08/11/22 10:45 | 10      |

**Client Sample ID: BH05**

**Lab Sample ID: 890-2704-10**

Date Collected: 08/01/22 12:15

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 |       |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |       |   | 08/08/22 13:11 | 08/11/22 03:48 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 73        |           | 70 - 130 |       |   | 08/04/22 09:22 | 08/05/22 16:07 | 1       |
| o-Terphenyl                          | 87        |           | 70 - 130 |       |   | 08/04/22 09:22 | 08/05/22 16:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 18.2   |           | 5.00 | mg/Kg |   |          | 08/11/22 10:54 | 1       |



### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH06**

**Lab Sample ID: 890-2704-11**

Date Collected: 08/01/22 12:20

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:09 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 16:50 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 65        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 16:50 | 1       |
| o-Terphenyl    | 78        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 16:50 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 34.5   |           | 4.96 | mg/Kg |   |          | 08/11/22 11:22 | 1       |

**Client Sample ID: BH06**

**Lab Sample ID: 890-2704-12**

Date Collected: 08/01/22 12:35

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:29 | 1       |

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### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Client Sample ID: BH06**

**Lab Sample ID: 890-2704-12**

Date Collected: 08/01/22 12:35

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:29 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:11 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:11 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 73        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:11 | 1       |
| o-Terphenyl    | 89        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:11 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.9   |           | 4.95 | mg/Kg |   |          | 08/11/22 11:31 | 1       |

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-13**

Date Collected: 08/01/22 12:45

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 04:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 04:49 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-13**

Date Collected: 08/01/22 12:45

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:33 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:33 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:33 | 1       |
| o-Terphenyl    | 91        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:33 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 11.9   |           | 4.95 | mg/Kg |   |          | 08/11/22 11:59 | 1       |

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-14**

Date Collected: 08/01/22 13:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:10 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 05:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 05:10 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:55 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 17:55 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:55 | 1       |
| o-Terphenyl    | 93        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 17:55 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-14**

Date Collected: 08/01/22 13:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 30.7   |           | 5.03 | mg/Kg |   |          | 08/11/22 12:08 | 1       |

**Client Sample ID: BH08**

**Lab Sample ID: 890-2704-15**

Date Collected: 08/01/22 14:00

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte                     | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00198         | U                | 0.00198       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| Toluene                     | <0.00198         | U                | 0.00198       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| Ethylbenzene                | <0.00198         | U                | 0.00198       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| m-Xylene & p-Xylene         | <0.00396         | U                | 0.00396       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| o-Xylene                    | <0.00198         | U                | 0.00198       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| Xylenes, Total              | <0.00396         | U                | 0.00396       | mg/Kg |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 100              |                  | 70 - 130      |       |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |
| 1,4-Difluorobenzene (Surr)  | 97               |                  | 70 - 130      |       |   | 08/08/22 13:11  | 08/11/22 05:30  | 1              |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 18:16  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 18:16  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          | mg/Kg |   | 08/04/22 09:22  | 08/05/22 18:16  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 51               | S1-              | 70 - 130      |       |   | 08/04/22 09:22  | 08/05/22 18:16  | 1              |
| o-Terphenyl                          | 54               | S1-              | 70 - 130      |       |   | 08/04/22 09:22  | 08/05/22 18:16  | 1              |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6.59   |           | 5.02 | mg/Kg |   |          | 08/11/22 12:17 | 1       |

### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

**Client Sample ID: BH08**

**Lab Sample ID: 890-2704-16**

Date Collected: 08/01/22 14:15

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 05:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 05:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 05:51 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 18:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 18:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 18:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 72        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 18:38 | 1       |
| o-Terphenyl    | 86        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 18:38 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 10.9   |           | 5.01 | mg/Kg |   |          | 08/11/22 12:27 | 1       |

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-17**

Date Collected: 08/01/22 13:30

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 06:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 06:11 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-17**

Date Collected: 08/01/22 13:30

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 1'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 06:11 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:00 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 63        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 19:00 | 1       |
| o-Terphenyl    | 73        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 19:00 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3250   |           | 25.0 | mg/Kg |   |          | 08/11/22 12:36 | 5       |

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-18**

Date Collected: 08/01/22 13:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 08:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 08:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 08:01 | 1       |

**Method: Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 08/09/22 15:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 08/08/22 11:58 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-18**

Date Collected: 08/01/22 13:40

Matrix: Solid

Date Received: 08/02/22 09:53

Sample Depth: 4'

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:22 | 1       |
| OII Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 19:22 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 68        | S1-       | 70 - 130 | 08/04/22 09:22 | 08/05/22 19:22 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 08/04/22 09:22 | 08/05/22 19:22 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 90.7   |           | 4.99 | mg/Kg |   |          | 08/11/22 12:45 | 1       |

### Surrogate Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID        | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|----------------------|------------------------|--|-------------------|
|                      |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 820-5243-A-121-D MS  | Matrix Spike           | 109  | 83                |
| 820-5243-A-121-E MSD | Matrix Spike Duplicate | 101  | 89                |
| 890-2704-1           | BH01                   | 129  | 79                |
| 890-2704-1 MS        | BH01                   | 130  | 85                |
| 890-2704-1 MSD       | BH01                   | 140 S1+  | 84                |
| 890-2704-2           | BH01                   | 131 S1+  | 93                |
| 890-2704-3           | BH02                   | 127  | 86                |
| 890-2704-4           | BH02                   | 139 S1+  | 91                |
| 890-2704-5           | BH03                   | 130  | 84                |
| 890-2704-6           | BH03                   | 125  | 92                |
| 890-2704-7           | BH04                   | 128  | 95                |
| 890-2704-8           | BH04                   | 99   | 98                |
| 890-2704-9           | BH05                   | 109  | 97                |
| 890-2704-9 MS        | BH05                   | 106  | 93                |
| 890-2704-9 MSD       | BH05                   | 102  | 103               |
| 890-2704-10          | BH05                   | 98   | 95                |
| 890-2704-11          | BH06                   | 99   | 99                |
| 890-2704-12          | BH06                   | 103  | 100               |
| 890-2704-13          | BH07                   | 101  | 98                |
| 890-2704-14          | BH07                   | 101  | 97                |
| 890-2704-15          | BH08                   | 100  | 97                |
| 890-2704-16          | BH08                   | 106  | 90                |
| 890-2704-17          | BH09                   | 103  | 100               |
| 890-2704-18          | BH09                   | 104  | 98                |
| LCS 880-31731/1-A    | Lab Control Sample     | 125  | 85                |
| LCS 880-31767/1-A    | Lab Control Sample     | 136 S1+  | 81                |
| LCS 880-31768/1-A    | Lab Control Sample     | 111  | 92                |
| LCSD 880-31731/2-A   | Lab Control Sample Dup | 111  | 83                |
| LCSD 880-31767/2-A   | Lab Control Sample Dup | 131 S1+  | 84                |
| LCSD 880-31768/2-A   | Lab Control Sample Dup | 104  | 92                |
| MB 880-31523/5-A     | Method Blank           | 92   | 80                |
| MB 880-31731/5-A     | Method Blank           | 92   | 80                |
| MB 880-31767/5-A     | Method Blank           | 103  | 75                |
| MB 880-31768/5-A     | Method Blank           | 94   | 97                |
| MB 880-31769/5-A     | Method Blank           | 94   | 102               |
| MB 880-31850/8       | Method Blank           | 99   | 77                |

**Surrogate Legend**

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID  | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                   |
|----------------|------------------|--|-------------------|
|                |                  | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2704-1     | BH01             | 72   | 81                |
| 890-2704-1 MS  | BH01             | 60 S1-   | 63 S1-            |
| 890-2704-1 MSD | BH01             | 66 S1-   | 67 S1-            |

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### Surrogate Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|--|-------------------|
|                    |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2704-2         | BH01                   | 71   | 85                |
| 890-2704-3         | BH02                   | 65 S1-   | 76                |
| 890-2704-4         | BH02                   | 61 S1-   | 70                |
| 890-2704-5         | BH03                   | 86   | 101               |
| 890-2704-6         | BH03                   | 90   | 105               |
| 890-2704-7         | BH04                   | 69 S1-   | 83                |
| 890-2704-8         | BH04                   | 64 S1-   | 75                |
| 890-2704-9         | BH05                   | 77   | 94                |
| 890-2704-10        | BH05                   | 73   | 87                |
| 890-2704-11        | BH06                   | 65 S1-   | 78                |
| 890-2704-12        | BH06                   | 73   | 89                |
| 890-2704-13        | BH07                   | 83   | 91                |
| 890-2704-14        | BH07                   | 83   | 93                |
| 890-2704-15        | BH08                   | 51 S1-   | 54 S1-            |
| 890-2704-16        | BH08                   | 72   | 86                |
| 890-2704-17        | BH09                   | 63 S1-   | 73                |
| 890-2704-18        | BH09                   | 68 S1-   | 81                |
| LCS 880-31470/2-A  | Lab Control Sample     | 92   | 97                |
| LCSD 880-31470/3-A | Lab Control Sample Dup | 88   | 95                |
| MB 880-31470/1-A   | Method Blank           | 88   | 108               |

**Surrogate Legend**

1CO = 1-Chlorooctane  
 OTPH = o-Terphenyl

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

### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: MB 880-31523/5-A  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 31523

| Analyte                     | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier |          |       |   |                |                |         |
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |       |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 |       |   | 08/04/22 16:53 | 08/08/22 11:35 | 1       |

Lab Sample ID: MB 880-31731/5-A  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte                     | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier |          |       |   |                |                |         |
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |       |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 |       |   | 08/08/22 10:46 | 08/09/22 01:11 | 1       |

Lab Sample ID: LCS 880-31731/1-A  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|-------------|
|                             |             |            |               |       |   |      |             |
| Toluene                     | 0.100       | 0.08549    |               | mg/Kg |   | 85   | 70 - 130    |
| Ethylbenzene                | 0.100       | 0.08686    |               | mg/Kg |   | 87   | 70 - 130    |
| m-Xylene & p-Xylene         | 0.200       | 0.1774     |               | mg/Kg |   | 89   | 70 - 130    |
| o-Xylene                    | 0.100       | 0.09732    |               | mg/Kg |   | 97   | 70 - 130    |
| Surrogate                   | %Recovery   | Qualifier  | Limits        |       |   |      |             |
| 4-Bromofluorobenzene (Surr) | 125         |            | 70 - 130      |       |   |      |             |
| 1,4-Difluorobenzene (Surr)  | 85          |            | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-31731/2-A  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD |       |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
|         |             |             |                |       |   |      |             | RPD | Limit |
| Benzene | 0.100       | 0.08517     |                | mg/Kg |   | 85   | 70 - 130    | 3   | 35    |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: LCSD 880-31731/2-A  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----|-------|
|                     |             |             |                |       |   |      | Limits   | RPD |     |       |
| Toluene             | 0.100       | 0.09048     |                | mg/Kg |   | 90   | 70 - 130 | 6   | 35  |       |
| Ethylbenzene        | 0.100       | 0.08974     |                | mg/Kg |   | 90   | 70 - 130 | 3   | 35  |       |
| m-Xylene & p-Xylene | 0.200       | 0.1833      |                | mg/Kg |   | 92   | 70 - 130 | 3   | 35  |       |
| o-Xylene            | 0.100       | 0.09907     |                | mg/Kg |   | 99   | 70 - 130 | 2   | 35  |       |

| Surrogate                  | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------------------|----------------|----------------|----------|
|                            |                |                |          |
| 1,4-Difluorobenzene (Surr) | 83             |                | 70 - 130 |

Lab Sample ID: 820-5243-A-121-D MS  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec     |     |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|-----|
|                     |               |                  |             |           |              |       |   |      | Limits   | RPD |
| Benzene             | <0.00199      | U F1 F2          | 0.101       | 0.007984  | F1           | mg/Kg |   | 8    | 70 - 130 |     |
| Toluene             | <0.00199      | U F1 F2          | 0.101       | 0.009017  | F1           | mg/Kg |   | 9    | 70 - 130 |     |
| Ethylbenzene        | <0.00199      | U F1 F2          | 0.101       | 0.009234  | F1           | mg/Kg |   | 9    | 70 - 130 |     |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.202       | 0.01864   | F1           | mg/Kg |   | 9    | 70 - 130 |     |
| o-Xylene            | <0.00199      | U F1 F2          | 0.101       | 0.01047   | F1           | mg/Kg |   | 10   | 70 - 130 |     |

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

Lab Sample ID: 820-5243-A-121-E MSD  
Matrix: Solid  
Analysis Batch: 31678

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 31731

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----|-------|
|                     |               |                  |             |            |               |       |   |      | Limits   | RPD |     |       |
| Benzene             | <0.00199      | U F1 F2          | 0.101       | 0.004525   | F1 F2         | mg/Kg |   | 4    | 70 - 130 | 55  | 35  |       |
| Toluene             | <0.00199      | U F1 F2          | 0.101       | 0.003980   | F1 F2         | mg/Kg |   | 4    | 70 - 130 | 78  | 35  |       |
| Ethylbenzene        | <0.00199      | U F1 F2          | 0.101       | 0.004221   | F1 F2         | mg/Kg |   | 4    | 70 - 130 | 75  | 35  |       |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.201       | 0.008636   | F1 F2         | mg/Kg |   | 4    | 70 - 130 | 73  | 35  |       |
| o-Xylene            | <0.00199      | U F1 F2          | 0.101       | 0.005003   | F1 F2         | mg/Kg |   | 5    | 70 - 130 | 71  | 35  |       |

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

Lab Sample ID: MB 880-31767/5-A  
Matrix: Solid  
Analysis Batch: 31850

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 31767

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
|                     |           |              |         |       |   |                |                |         |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 06:38 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 06:38 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 06:38 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

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

Lab Sample ID: MB 880-31767/5-A  
 Matrix: Solid  
 Analysis Batch: 31850

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 31767

| Analyte        | MB       | MB        | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
|                | Result   | Qualifier |         |       |   |                |                |         |
| o-Xylene       | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 06:38 | 1       |
| Xylenes, Total | <0.00400 | U         | 0.00400 | mg/Kg |   | 08/08/22 13:00 | 08/10/22 06:38 | 1       |

| Surrogate                   | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 08/08/22 13:00 | 08/10/22 06:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 75        |           | 70 - 130 | 08/08/22 13:00 | 08/10/22 06:38 | 1       |

Lab Sample ID: LCS 880-31767/1-A  
 Matrix: Solid  
 Analysis Batch: 31850

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 31767

| Analyte             | Spike Added | LCS     | LCS       | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|---------|-----------|-------|---|------|-------------|
|                     |             | Result  | Qualifier |       |   |      |             |
| Benzene             | 0.100       | 0.08434 |           | mg/Kg |   | 84   | 70 - 130    |
| Toluene             | 0.100       | 0.08825 |           | mg/Kg |   | 88   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08741 |           | mg/Kg |   | 87   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1767  |           | mg/Kg |   | 88   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09757 |           | mg/Kg |   | 98   | 70 - 130    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 136       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 |

Lab Sample ID: LCSD 880-31767/2-A  
 Matrix: Solid  
 Analysis Batch: 31850

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 31767

| Analyte             | Spike Added | LCSD    | LCSD      | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|---------|-----------|-------|---|------|-------------|-----|-------|
|                     |             | Result  | Qualifier |       |   |      |             |     |       |
| Benzene             | 0.100       | 0.08734 |           | mg/Kg |   | 87   | 70 - 130    | 3   | 35    |
| Toluene             | 0.100       | 0.08876 |           | mg/Kg |   | 89   | 70 - 130    | 1   | 35    |
| Ethylbenzene        | 0.100       | 0.08917 |           | mg/Kg |   | 89   | 70 - 130    | 2   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.1831  |           | mg/Kg |   | 92   | 70 - 130    | 4   | 35    |
| o-Xylene            | 0.100       | 0.09964 |           | mg/Kg |   | 100  | 70 - 130    | 2   | 35    |

| Surrogate                   | LCSD      | LCSD      | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 131       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |

Lab Sample ID: 890-2704-1 MS  
 Matrix: Solid  
 Analysis Batch: 31850

Client Sample ID: BH01  
 Prep Type: Total/NA  
 Prep Batch: 31767

| Analyte             | Sample   | Sample    | Spike Added | MS      | MS        | Unit  | D | %Rec | %Rec Limits |
|---------------------|----------|-----------|-------------|---------|-----------|-------|---|------|-------------|
|                     | Result   | Qualifier |             | Result  | Qualifier |       |   |      |             |
| Benzene             | <0.00199 | U F1      | 0.100       | 0.09552 |           | mg/Kg |   | 95   | 70 - 130    |
| Toluene             | <0.00199 | U         | 0.100       | 0.09509 |           | mg/Kg |   | 95   | 70 - 130    |
| Ethylbenzene        | <0.00199 | U         | 0.100       | 0.09336 |           | mg/Kg |   | 93   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.201       | 0.1888  |           | mg/Kg |   | 94   | 70 - 130    |
| o-Xylene            | <0.00199 | U         | 0.100       | 0.1014  |           | mg/Kg |   | 101  | 70 - 130    |

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### QC Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

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

**Lab Sample ID: 890-2704-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 31850**

**Client Sample ID: BH01**  
**Prep Type: Total/NA**  
**Prep Batch: 31767**

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

**Lab Sample ID: 890-2704-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 31850**

**Client Sample ID: BH01**  
**Prep Type: Total/NA**  
**Prep Batch: 31767**

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD MSD |           | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|---------------------|---------------|------------------|-------------|---------|-----------|-------|---|------|----------|-----|-----|-------|
|                     |               |                  |             | Result  | Qualifier |       |   |      | Limits   | RPD |     |       |
| Benzene             | <0.00199      | U F1             | 0.0998      | 0.06812 | F1        | mg/Kg |   | 68   | 70 - 130 | 33  | 35  |       |
| Toluene             | <0.00199      | U                | 0.0998      | 0.07008 |           | mg/Kg |   | 70   | 70 - 130 | 30  | 35  |       |
| Ethylbenzene        | <0.00199      | U                | 0.0998      | 0.07097 |           | mg/Kg |   | 71   | 70 - 130 | 27  | 35  |       |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.200       | 0.1453  |           | mg/Kg |   | 73   | 70 - 130 | 26  | 35  |       |
| o-Xylene            | <0.00199      | U                | 0.0998      | 0.08021 |           | mg/Kg |   | 80   | 70 - 130 | 23  | 35  |       |

| Surrogate                   | MSD MSD   |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 140       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |

**Lab Sample ID: MB 880-31768/5-A**  
**Matrix: Solid**  
**Analysis Batch: 31904**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 31768**

| Analyte             | MB MB    |           | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
|                     | Result   | Qualifier |         |       |   |                |                |         |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 08/08/22 13:11 | 08/11/22 02:38 | 1       |

| Surrogate                   | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 02:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 08/08/22 13:11 | 08/11/22 02:38 | 1       |

**Lab Sample ID: LCS 880-31768/1-A**  
**Matrix: Solid**  
**Analysis Batch: 31904**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 31768**

| Analyte             | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec     |     |
|---------------------|-------------|---------|-----------|-------|---|------|----------|-----|
|                     |             | Result  | Qualifier |       |   |      | Limits   | RPD |
| Benzene             | 0.100       | 0.07179 |           | mg/Kg |   | 72   | 70 - 130 |     |
| Toluene             | 0.100       | 0.08341 |           | mg/Kg |   | 83   | 70 - 130 |     |
| Ethylbenzene        | 0.100       | 0.08799 |           | mg/Kg |   | 88   | 70 - 130 |     |
| m-Xylene & p-Xylene | 0.200       | 0.1838  |           | mg/Kg |   | 92   | 70 - 130 |     |
| o-Xylene            | 0.100       | 0.09228 |           | mg/Kg |   | 92   | 70 - 130 |     |

| Surrogate                   | LCS LCS   |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: LCS 880-31768/1-A  
Matrix: Solid  
Analysis Batch: 31904

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 31768

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

Lab Sample ID: LCSD 880-31768/2-A  
Matrix: Solid  
Analysis Batch: 31904

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 31768

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----|-------|
|                     |             |             |                |       |   |      | Limits   | RPD |     |       |
| Benzene             | 0.100       | 0.07256     |                | mg/Kg |   | 73   | 70 - 130 | 1   | 35  |       |
| Toluene             | 0.100       | 0.08266     |                | mg/Kg |   | 83   | 70 - 130 | 1   | 35  |       |
| Ethylbenzene        | 0.100       | 0.08687     |                | mg/Kg |   | 87   | 70 - 130 | 1   | 35  |       |
| m-Xylene & p-Xylene | 0.200       | 0.1804      |                | mg/Kg |   | 90   | 70 - 130 | 2   | 35  |       |
| o-Xylene            | 0.100       | 0.09054     |                | mg/Kg |   | 91   | 70 - 130 | 2   | 35  |       |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 104            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92             |                | 70 - 130 |

Lab Sample ID: 890-2704-9 MS  
Matrix: Solid  
Analysis Batch: 31904

Client Sample ID: BH05  
Prep Type: Total/NA  
Prep Batch: 31768

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec     |     |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|-----|
|                     |               |                  |             |           |              |       |   |      | Limits   | RPD |
| Benzene             | <0.00199      | U                | 0.0998      | 0.08508   |              | mg/Kg |   | 85   | 70 - 130 |     |
| Toluene             | <0.00199      | U                | 0.0998      | 0.09438   |              | mg/Kg |   | 95   | 70 - 130 |     |
| Ethylbenzene        | <0.00199      | U                | 0.0998      | 0.09810   |              | mg/Kg |   | 98   | 70 - 130 |     |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.200       | 0.2010    |              | mg/Kg |   | 101  | 70 - 130 |     |
| o-Xylene            | <0.00199      | U                | 0.0998      | 0.09903   |              | mg/Kg |   | 99   | 70 - 130 |     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 106          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 |

Lab Sample ID: 890-2704-9 MSD  
Matrix: Solid  
Analysis Batch: 31904

Client Sample ID: BH05  
Prep Type: Total/NA  
Prep Batch: 31768

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----|-------|
|                     |               |                  |             |            |               |       |   |      | Limits   | RPD |     |       |
| Benzene             | <0.00199      | U                | 0.100       | 0.1022     |               | mg/Kg |   | 102  | 70 - 130 | 18  | 35  |       |
| Toluene             | <0.00199      | U                | 0.100       | 0.09599    |               | mg/Kg |   | 96   | 70 - 130 | 2   | 35  |       |
| Ethylbenzene        | <0.00199      | U                | 0.100       | 0.09685    |               | mg/Kg |   | 96   | 70 - 130 | 1   | 35  |       |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.201       | 0.1954     |               | mg/Kg |   | 97   | 70 - 130 | 3   | 35  |       |
| o-Xylene            | <0.00199      | U                | 0.100       | 0.09572    |               | mg/Kg |   | 95   | 70 - 130 | 3   | 35  |       |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 102           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: MB 880-31769/5-A  
Matrix: Solid  
Analysis Batch: 31904

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 31769

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/08/22 13:23 | 08/10/22 14:40 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94           |              | 70 - 130 | 08/08/22 13:23 | 08/10/22 14:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 08/08/22 13:23 | 08/10/22 14:40 | 1       |

Lab Sample ID: MB 880-31850/8  
Matrix: Solid  
Analysis Batch: 31850

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

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   |          | 08/09/22 16:48 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   |          | 08/09/22 16:48 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   |          | 08/09/22 16:48 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   |          | 08/09/22 16:48 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   |          | 08/09/22 16:48 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   |          | 08/09/22 16:48 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 |          | 08/09/22 16:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 |          | 08/09/22 16:48 | 1       |

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

Lab Sample ID: MB 880-31470/1-A  
Matrix: Solid  
Analysis Batch: 31531

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 31470

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 11:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 11:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 08/04/22 09:22 | 08/05/22 11:01 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88           |              | 70 - 130 | 08/04/22 09:22 | 08/05/22 11:01 | 1       |
| o-Terphenyl    | 108          |              | 70 - 130 | 08/04/22 09:22 | 08/05/22 11:01 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

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

**Lab Sample ID: LCS 880-31470/2-A**  
**Matrix: Solid**  
**Analysis Batch: 31531**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 31470**

| Analyte                              | Spike Added      | LCS Result       | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|--------------------------------------|------------------|------------------|---------------|-------|---|------|-------------|--|--|
|                                      |                  |                  |               |       |   |      |             |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1009             |               | mg/Kg |   | 101  | 70 - 130    |  |  |
| Diesel Range Organics (Over C10-C28) | 1000             | 981.4            |               | mg/Kg |   | 98   | 70 - 130    |  |  |
|                                      |                  | <b>LCS</b>       | <b>LCS</b>    |       |   |      |             |  |  |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   |      |             |  |  |
| 1-Chlorooctane                       | 92               |                  | 70 - 130      |       |   |      |             |  |  |
| o-Terphenyl                          | 97               |                  | 70 - 130      |       |   |      |             |  |  |

**Lab Sample ID: LCSD 880-31470/3-A**  
**Matrix: Solid**  
**Analysis Batch: 31531**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 31470**

| Analyte                              | Spike Added      | LCSD Result      | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits |  | RPD | Limit |
|--------------------------------------|------------------|------------------|----------------|-------|---|------|-------------|--|-----|-------|
|                                      |                  |                  |                |       |   |      |             |  |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 969.8            |                | mg/Kg |   | 97   | 70 - 130    |  | 4   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000             | 894.9            |                | mg/Kg |   | 89   | 70 - 130    |  | 9   | 20    |
|                                      |                  | <b>LCSD</b>      | <b>LCSD</b>    |       |   |      |             |  |     |       |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b>  |       |   |      |             |  |     |       |
| 1-Chlorooctane                       | 88               |                  | 70 - 130       |       |   |      |             |  |     |       |
| o-Terphenyl                          | 95               |                  | 70 - 130       |       |   |      |             |  |     |       |

**Lab Sample ID: 890-2704-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 31531**

**Client Sample ID: BH01**  
**Prep Type: Total/NA**  
**Prep Batch: 31470**

| Analyte                              | Sample Result    | Sample Qualifier | Spike Added   | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |
|--------------------------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|-------------|--|
|                                      |                  |                  |               |           |              |       |   |      |             |  |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                | 999           | 766.4     |              | mg/Kg |   | 75   | 70 - 130    |  |
| Diesel Range Organics (Over C10-C28) | <49.9            | U F1             | 999           | 620.6     | F1           | mg/Kg |   | 62   | 70 - 130    |  |
|                                      |                  | <b>MS</b>        | <b>MS</b>     |           |              |       |   |      |             |  |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |              |       |   |      |             |  |
| 1-Chlorooctane                       | 60               | S1-              | 70 - 130      |           |              |       |   |      |             |  |
| o-Terphenyl                          | 63               | S1-              | 70 - 130      |           |              |       |   |      |             |  |

**Lab Sample ID: 890-2704-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 31531**

**Client Sample ID: BH01**  
**Prep Type: Total/NA**  
**Prep Batch: 31470**

| Analyte                              | Sample Result    | Sample Qualifier | Spike Added   | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits |  | RPD | Limit |
|--------------------------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|-------------|--|-----|-------|
|                                      |                  |                  |               |            |               |       |   |      |             |  |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                | 999           | 861.7      |               | mg/Kg |   | 84   | 70 - 130    |  | 12  | 20    |
| Diesel Range Organics (Over C10-C28) | <49.9            | U F1             | 999           | 671.9      | F1            | mg/Kg |   | 67   | 70 - 130    |  | 8   | 20    |
|                                      |                  | <b>MSD</b>       | <b>MSD</b>    |            |               |       |   |      |             |  |     |       |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |            |               |       |   |      |             |  |     |       |
| 1-Chlorooctane                       | 66               | S1-              | 70 - 130      |            |               |       |   |      |             |  |     |       |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: 890-2704-1 MSD  
Matrix: Solid  
Analysis Batch: 31531

Client Sample ID: BH01  
Prep Type: Total/NA  
Prep Batch: 31470

| Surrogate           | %Recovery | MSD<br>Qualifier | MSD<br>Limits |
|---------------------|-----------|------------------|---------------|
| <i>o</i> -Terphenyl | 67        | S1-              | 70 - 130      |

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

Lab Sample ID: MB 880-31446/1-A  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: Method Blank  
Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 08/11/22 08:18 | 1       |

Lab Sample ID: LCS 880-31446/2-A  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 244.6         |                  | mg/Kg |   | 98   | 90 - 110       |

Lab Sample ID: LCSD 880-31446/3-A  
Matrix: Solid  
Analysis Batch: 31668

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

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|-------|
| Chloride | 250            | 249.4          |                   | mg/Kg |   | 100  | 90 - 110       | 2   | 20    |

Lab Sample ID: 880-17639-A-1-B MS  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: Matrix Spike  
Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 1050             |                     | 2490           | 3537         |                 | mg/Kg |   | 100  | 90 - 110       |

Lab Sample ID: 880-17639-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|-------|
| Chloride | 1050             |                     | 2490           | 3565          |                  | mg/Kg |   | 101  | 90 - 110       | 1   | 20    |

Lab Sample ID: 890-2704-10 MS  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: BH05  
Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 18.2             |                     | 250            | 277.6        |                 | mg/Kg |   | 104  | 90 - 110       |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

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

Lab Sample ID: 890-2704-10 MSD  
Matrix: Solid  
Analysis Batch: 31668

Client Sample ID: BH05  
Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 18.2          |                  | 250         | 274.0      |               | mg/Kg |   | 102  | 90 - 110    | 1   | 20        |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

#### GC VOA

##### Prep Batch: 31523

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-31523/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 31678

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-2           | BH01                   | Total/NA  | Solid  | 8021B  | 31731      |
| 890-2704-3           | BH02                   | Total/NA  | Solid  | 8021B  | 31731      |
| 890-2704-4           | BH02                   | Total/NA  | Solid  | 8021B  | 31731      |
| 890-2704-5           | BH03                   | Total/NA  | Solid  | 8021B  | 31731      |
| 890-2704-6           | BH03                   | Total/NA  | Solid  | 8021B  | 31731      |
| 890-2704-7           | BH04                   | Total/NA  | Solid  | 8021B  | 31731      |
| MB 880-31523/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 31523      |
| MB 880-31731/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 31731      |
| LCS 880-31731/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 31731      |
| LCSD 880-31731/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 31731      |
| 820-5243-A-121-D MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 31731      |
| 820-5243-A-121-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 31731      |

##### Prep Batch: 31731

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-2           | BH01                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-3           | BH02                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-4           | BH02                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-5           | BH03                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-6           | BH03                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-7           | BH04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-31731/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-31731/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-31731/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 820-5243-A-121-D MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 820-5243-A-121-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 31767

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-1         | BH01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-31767/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-31767/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-31767/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2704-1 MS      | BH01                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-1 MSD     | BH01                   | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 31768

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-2704-8    | BH04             | Total/NA  | Solid  | 5035   |            |
| 890-2704-9    | BH05             | Total/NA  | Solid  | 5035   |            |
| 890-2704-10   | BH05             | Total/NA  | Solid  | 5035   |            |
| 890-2704-11   | BH06             | Total/NA  | Solid  | 5035   |            |
| 890-2704-12   | BH06             | Total/NA  | Solid  | 5035   |            |
| 890-2704-13   | BH07             | Total/NA  | Solid  | 5035   |            |
| 890-2704-14   | BH07             | Total/NA  | Solid  | 5035   |            |
| 890-2704-15   | BH08             | Total/NA  | Solid  | 5035   |            |
| 890-2704-16   | BH08             | Total/NA  | Solid  | 5035   |            |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

#### GC VOA (Continued)

##### Prep Batch: 31768 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-17        | BH09                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-18        | BH09                   | Total/NA  | Solid  | 5035   |            |
| MB 880-31768/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-31768/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-31768/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2704-9 MS      | BH05                   | Total/NA  | Solid  | 5035   |            |
| 890-2704-9 MSD     | BH05                   | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 31769

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-31769/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 31850

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-1         | BH01                   | Total/NA  | Solid  | 8021B  | 31767      |
| MB 880-31767/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 31767      |
| MB 880-31850/8     | Method Blank           | Total/NA  | Solid  | 8021B  |            |
| LCS 880-31767/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 31767      |
| LCSD 880-31767/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 31767      |
| 890-2704-1 MS      | BH01                   | Total/NA  | Solid  | 8021B  | 31767      |
| 890-2704-1 MSD     | BH01                   | Total/NA  | Solid  | 8021B  | 31767      |

##### Analysis Batch: 31860

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2704-1    | BH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-2    | BH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-3    | BH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-4    | BH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-5    | BH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-6    | BH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-7    | BH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-8    | BH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-9    | BH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-10   | BH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-11   | BH06             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-12   | BH06             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-13   | BH07             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-14   | BH07             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-15   | BH08             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-16   | BH08             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-17   | BH09             | Total/NA  | Solid  | Total BTEX |            |
| 890-2704-18   | BH09             | Total/NA  | Solid  | Total BTEX |            |

##### Analysis Batch: 31904

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-2704-8    | BH04             | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-9    | BH05             | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-10   | BH05             | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-11   | BH06             | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-12   | BH06             | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-13   | BH07             | Total/NA  | Solid  | 8021B  | 31768      |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

#### GC VOA (Continued)

##### Analysis Batch: 31904 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-14        | BH07                   | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-15        | BH08                   | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-16        | BH08                   | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-17        | BH09                   | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-18        | BH09                   | Total/NA  | Solid  | 8021B  | 31768      |
| MB 880-31768/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 31768      |
| MB 880-31769/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 31769      |
| LCS 880-31768/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 31768      |
| LCSD 880-31768/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-9 MS      | BH05                   | Total/NA  | Solid  | 8021B  | 31768      |
| 890-2704-9 MSD     | BH05                   | Total/NA  | Solid  | 8021B  | 31768      |

#### GC Semi VOA

##### Prep Batch: 31470

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2704-1         | BH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-2         | BH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-3         | BH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-4         | BH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-5         | BH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-6         | BH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-7         | BH04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-8         | BH04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-9         | BH05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-10        | BH05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-11        | BH06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-12        | BH06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-13        | BH07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-14        | BH07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-15        | BH08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-16        | BH08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-17        | BH09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-18        | BH09                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-31470/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-31470/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-31470/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-1 MS      | BH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2704-1 MSD     | BH01                   | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 31531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2704-1    | BH01             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-2    | BH01             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-3    | BH02             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-4    | BH02             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-5    | BH03             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-6    | BH03             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-7    | BH04             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-8    | BH04             | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-9    | BH05             | Total/NA  | Solid  | 8015B NM | 31470      |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

#### GC Semi VOA (Continued)

##### Analysis Batch: 31531 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2704-10        | BH05                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-11        | BH06                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-12        | BH06                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-13        | BH07                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-14        | BH07                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-15        | BH08                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-16        | BH08                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-17        | BH09                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-18        | BH09                   | Total/NA  | Solid  | 8015B NM | 31470      |
| MB 880-31470/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 31470      |
| LCS 880-31470/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 31470      |
| LCSD 880-31470/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-1 MS      | BH01                   | Total/NA  | Solid  | 8015B NM | 31470      |
| 890-2704-1 MSD     | BH01                   | Total/NA  | Solid  | 8015B NM | 31470      |

##### Analysis Batch: 31749

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2704-1    | BH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-2    | BH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-3    | BH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-4    | BH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-5    | BH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-6    | BH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-7    | BH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-8    | BH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-9    | BH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-10   | BH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-11   | BH06             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-12   | BH06             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-13   | BH07             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-14   | BH07             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-15   | BH08             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-16   | BH08             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-17   | BH09             | Total/NA  | Solid  | 8015 NM |            |
| 890-2704-18   | BH09             | Total/NA  | Solid  | 8015 NM |            |

#### HPLC/IC

##### Leach Batch: 31446

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2704-1    | BH01             | Soluble   | Solid  | DI Leach |            |
| 890-2704-2    | BH01             | Soluble   | Solid  | DI Leach |            |
| 890-2704-3    | BH02             | Soluble   | Solid  | DI Leach |            |
| 890-2704-4    | BH02             | Soluble   | Solid  | DI Leach |            |
| 890-2704-5    | BH03             | Soluble   | Solid  | DI Leach |            |
| 890-2704-6    | BH03             | Soluble   | Solid  | DI Leach |            |
| 890-2704-7    | BH04             | Soluble   | Solid  | DI Leach |            |
| 890-2704-8    | BH04             | Soluble   | Solid  | DI Leach |            |
| 890-2704-9    | BH05             | Soluble   | Solid  | DI Leach |            |
| 890-2704-10   | BH05             | Soluble   | Solid  | DI Leach |            |
| 890-2704-11   | BH06             | Soluble   | Solid  | DI Leach |            |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

#### HPLC/IC (Continued)

##### Leach Batch: 31446 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2704-12         | BH06                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-13         | BH07                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-14         | BH07                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-15         | BH08                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-16         | BH08                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-17         | BH09                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-18         | BH09                   | Soluble   | Solid  | DI Leach |            |
| MB 880-31446/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-31446/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-31446/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-17639-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-17639-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 890-2704-10 MS      | BH05                   | Soluble   | Solid  | DI Leach |            |
| 890-2704-10 MSD     | BH05                   | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 31668

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2704-1          | BH01                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-2          | BH01                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-3          | BH02                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-4          | BH02                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-5          | BH03                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-6          | BH03                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-7          | BH04                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-8          | BH04                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-9          | BH05                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-10         | BH05                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-11         | BH06                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-12         | BH06                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-13         | BH07                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-14         | BH07                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-15         | BH08                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-16         | BH08                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-17         | BH09                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-18         | BH09                   | Soluble   | Solid  | 300.0  | 31446      |
| MB 880-31446/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 31446      |
| LCS 880-31446/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 31446      |
| LCSD 880-31446/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 31446      |
| 880-17639-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 31446      |
| 880-17639-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-10 MS      | BH05                   | Soluble   | Solid  | 300.0  | 31446      |
| 890-2704-10 MSD     | BH05                   | Soluble   | Solid  | 300.0  | 31446      |



### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH01**

**Lab Sample ID: 890-2704-1**

Date Collected: 08/01/22 09:00

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 31767        | 08/08/22 13:00       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31850        | 08/10/22 07:05       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 12:07       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 09:13       | CH      | EET MID |

**Client Sample ID: BH01**

**Lab Sample ID: 890-2704-2**

Date Collected: 08/01/22 09:15

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 10:47       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 13:13       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 09:22       | CH      | EET MID |

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-3**

Date Collected: 08/01/22 09:25

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 11:14       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 13:34       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 31668        | 08/11/22 09:31       | CH      | EET MID |

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-4**

Date Collected: 08/01/22 09:40

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 11:40       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH02**

**Lab Sample ID: 890-2704-4**

Date Collected: 08/01/22 09:40

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 13:56       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 09:40       | CH      | EET MID |

**Client Sample ID: BH03**

**Lab Sample ID: 890-2704-5**

Date Collected: 08/01/22 10:15

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 12:06       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 14:18       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 10:08       | CH      | EET MID |

**Client Sample ID: BH03**

**Lab Sample ID: 890-2704-6**

Date Collected: 08/01/22 10:25

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 12:33       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 14:40       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 10:17       | CH      | EET MID |

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-7**

Date Collected: 08/01/22 10:40

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 31731        | 08/08/22 10:46       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 31678        | 08/09/22 12:59       | MR      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 15:01       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-7**

Date Collected: 08/01/22 10:40

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 31668        | 08/11/22 10:27       | CH      | EET MID |

**Client Sample ID: BH04**

**Lab Sample ID: 890-2704-8**

Date Collected: 08/01/22 10:55

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 03:28       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 15:23       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 31446        | 08/03/22 17:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 10:36       | CH      | EET MID |

**Client Sample ID: BH05**

**Lab Sample ID: 890-2704-9**

Date Collected: 08/01/22 12:00

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 03:07       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 15:45       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 31668        | 08/11/22 10:45       | CH      | EET MID |

**Client Sample ID: BH05**

**Lab Sample ID: 890-2704-10**

Date Collected: 08/01/22 12:15

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 03:48       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 16:07       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 10:54       | CH      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH06**

**Lab Sample ID: 890-2704-11**

Date Collected: 08/01/22 12:20

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 04:09       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 16:50       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 11:22       | CH      | EET MID |

**Client Sample ID: BH06**

**Lab Sample ID: 890-2704-12**

Date Collected: 08/01/22 12:35

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 04:29       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 17:11       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 11:31       | CH      | EET MID |

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-13**

Date Collected: 08/01/22 12:45

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 04:49       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 17:33       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 11:59       | CH      | EET MID |

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-14**

Date Collected: 08/01/22 13:00

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 05:10       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH07**

**Lab Sample ID: 890-2704-14**

Date Collected: 08/01/22 13:00

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 17:55       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 12:08       | CH      | EET MID |

**Client Sample ID: BH08**

**Lab Sample ID: 890-2704-15**

Date Collected: 08/01/22 14:00

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 05:30       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 18:16       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 12:17       | CH      | EET MID |

**Client Sample ID: BH08**

**Lab Sample ID: 890-2704-16**

Date Collected: 08/01/22 14:15

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 05:51       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 18:38       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 12:27       | CH      | EET MID |

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-17**

Date Collected: 08/01/22 13:30

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 06:11       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 19:00       | SM      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-17**

Date Collected: 08/01/22 13:30

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 31668        | 08/11/22 12:36       | CH      | EET MID |

**Client Sample ID: BH09**

**Lab Sample ID: 890-2704-18**

Date Collected: 08/01/22 13:40

Matrix: Solid

Date Received: 08/02/22 09:53

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 31768        | 08/08/22 13:11       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31904        | 08/11/22 08:01       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31860        | 08/09/22 15:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31749        | 08/08/22 11:58       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 31470        | 08/04/22 09:22       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31531        | 08/05/22 19:22       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 31446        | 08/03/22 17:10       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31668        | 08/11/22 12:45       | CH      | EET MID |

**Laboratory References:**

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



### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

#### Laboratory: Eurofins Midland

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

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

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

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

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### Method Summary

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2704-1  
 SDG: 03E1558045

| 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: BEU Connector PW Booster

Job ID: 890-2704-1  
SDG: 03E1558045

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2704-1    | BH01             | Solid  | 08/01/22 09:00 | 08/02/22 09:53 | 1'    |
| 890-2704-2    | BH01             | Solid  | 08/01/22 09:15 | 08/02/22 09:53 | 4'    |
| 890-2704-3    | BH02             | Solid  | 08/01/22 09:25 | 08/02/22 09:53 | 1'    |
| 890-2704-4    | BH02             | Solid  | 08/01/22 09:40 | 08/02/22 09:53 | 4'    |
| 890-2704-5    | BH03             | Solid  | 08/01/22 10:15 | 08/02/22 09:53 | 2'    |
| 890-2704-6    | BH03             | Solid  | 08/01/22 10:25 | 08/02/22 09:53 | 4'    |
| 890-2704-7    | BH04             | Solid  | 08/01/22 10:40 | 08/02/22 09:53 | 1'    |
| 890-2704-8    | BH04             | Solid  | 08/01/22 10:55 | 08/02/22 09:53 | 4'    |
| 890-2704-9    | BH05             | Solid  | 08/01/22 12:00 | 08/02/22 09:53 | 1'    |
| 890-2704-10   | BH05             | Solid  | 08/01/22 12:15 | 08/02/22 09:53 | 4'    |
| 890-2704-11   | BH06             | Solid  | 08/01/22 12:20 | 08/02/22 09:53 | 1'    |
| 890-2704-12   | BH06             | Solid  | 08/01/22 12:35 | 08/02/22 09:53 | 4'    |
| 890-2704-13   | BH07             | Solid  | 08/01/22 12:45 | 08/02/22 09:53 | 1'    |
| 890-2704-14   | BH07             | Solid  | 08/01/22 13:00 | 08/02/22 09:53 | 4'    |
| 890-2704-15   | BH08             | Solid  | 08/01/22 14:00 | 08/02/22 09:53 | 1'    |
| 890-2704-16   | BH08             | Solid  | 08/01/22 14:15 | 08/02/22 09:53 | 4'    |
| 890-2704-17   | BH09             | Solid  | 08/01/22 13:30 | 08/02/22 09:53 | 1'    |
| 890-2704-18   | BH09             | Solid  | 08/01/22 13:40 | 08/02/22 09:53 | 4'    |

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Environment Testing  
Xenco

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

### Chain of Custody

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

www.xenco.com Page 1 of 2

|                  |                         |                         |                         |
|------------------|-------------------------|-------------------------|-------------------------|
| Project Manager: | Tacoma Morrissey        | Bill to: (if different) | Garrett Green           |
| Company Name:    | Ensolium                | Company Name:           | XTO Energy              |
| Address:         | 3122 National Parks Hwy | Address:                | 3104 East Green St.     |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220      |
| Phone:           | 337.257.8307            | Email:                  | tmorrissey@ensolium.com |

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

|                          |  |  |            |                  |   |
|--------------------------|--|--|------------|------------------|---|
| Project Name:            | BEU Connector PW Booster   | Turn Around  | Pres. Code | ANALYSIS REQUEST | Preservative Codes  |
| Project Number:          | 03E1558045   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush    |            |                  | None: NO DI Water: H <sub>2</sub> O                               |
| Project Location:        | Comer Shore  | Due Date:  |            |                  | Cool: Cool MeOH: Me   |
| Sampler's Name:          |  | TAT starts the day received by the lab, if received by 4:30pm                |            |                  | HCL: HC HNO <sub>3</sub> : HN                                     |
| PO #:                    |  |  |            |                  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na          |
| <b>SAMPLE RECEIPT</b>    | Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |            |                  | H <sub>3</sub> PO <sub>4</sub> : HP                               |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                        | Thermometer ID: <u>1001003</u>   |            |                  | NaHSO <sub>4</sub> : NABIS  |
| Cooler Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                        | Correction Factor: <u>-0.03</u>  |            |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |
| Sample Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                        | Temperature Reading: <u>6.8</u>  |            |                  | Zn Acetate+NaOH: Zn   |
| Total Containers:        |  | Corrected Temperature: <u>5.8</u>  |            |                  | NaOH+Ascorbic Acid: S APC   |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | Sample Comments         |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|-------------------------|
| BH01                  | S      | 08.01.22     | 900          | 1'    | G         | 1         | X                      | X          | X           | NAPP2213151424          |
| BH01                  | S      | 08.01.22     | 915          | 4'    | G         | 1         | X                      | X          | X           | Cost Center: 1081711001 |
| BH02                  | S      | 08.01.22     | 925          | 1'    | G         | 1         | X                      | X          | X           | AFE:                    |
| BH02                  | S      | 08.01.22     | 940          | 4'    | G         | 1         | X                      | X          | X           | API: 30-015-40660       |
| BH03                  | S      | 08.01.22     | 1015         | 2'    | G         | 1         | X                      | X          | X           |                         |
| BH03                  | S      | 08.01.22     | 1025         | 4'    | G         | 1         | X                      | X          | X           |                         |
| BH04                  | S      | 08.01.22     | 1040         | 1'    | G         | 1         | X                      | X          | X           |                         |
| BH04                  | S      | 08.01.22     | 1055         | 4'    | G         | 1         | X                      | X          | X           |                         |
| BH05                  | S      | 08.01.22     | 1200         | 1'    | G         | 1         | X                      | X          | X           |                         |
| BH05                  | S      | 08.01.22     | 1215         | 4'    | G         | 1         | X                      | X          | X           |                         |

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

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|                              |                          |            |                              |                          |           |
|------------------------------|--------------------------|------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time  | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|                              |                          | 8.8.22 953 |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |



Environment Testing  
Xenco

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

### Chain of Custody

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

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Page 2 of 2

|                  |                         |                         |                        |
|------------------|-------------------------|-------------------------|------------------------|
| Project Manager: | Tacoma Morrissey        | Bill to: (if different) | Garrett Green          |
| Company Name:    | Ensolum                 | Company Name:           | XTO Energy             |
| Address:         | 3122 National Parks Hwy | Address:                | 3104 East Green St.    |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 337.257.8307            | Email:                  | emorrissey@ensolum.com |

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

|                   |                          |   |   |            |  |
|-------------------|--------------------------|---|---|------------|--|
| Project Name:     | BEU Connector PW Booster | Turn Around   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  |
| Project Number:   | 03E1558045               | Due Date:   |   |            |  |
| Project Location: | Conner Shore             | TAT starts the day received by the lab, if received by 4:30pm |   |            |  |
| Sampler's Name:   |                          | Wet Ice:  | Yes   | No         |  |
| PO #:             |                          | Temp Blank:   | Yes   | No         |  |

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

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters             | ANALYSIS REQUEST | Preservative Codes  | Sample Comments            |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------------|---|----------------------------|
| BH06                  | S      | 08.01.22     | 1220         | 1'    | G         | 1         | CHLORIDES (EPA: 300.0) |                  | None: NO  | DI Water: H <sub>2</sub> O |
| BH06                  | S      | 08.01.22     | 1235         | 4'    | G         | 1         | TPH (8015)             |                  | Cool: Cool  | MeOH: Me                   |
| BH07                  | S      | 08.01.22     | 1245         | 1'    | G         | 1         | BTEX (8021)            |                  | HCL: HC   | HNO <sub>3</sub> : HN      |
| BH07                  | S      | 08.01.22     | 1300         | 4'    | G         | 1         |                        |                  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                   | NaOH: Na                   |
| BH08                  | S      | 08.01.22     | 1400         | 1'    | G         | 1         |                        |                  | H <sub>3</sub> PO <sub>4</sub> : HP                               |                            |
| BH08                  | S      | 08.01.22     | 1415         | 4'    | G         | 1         |                        |                  | NaHSO <sub>4</sub> : NABIS  |                            |
| BH09                  | S      | 08.01.22     | 1330         | 1'    | G         | 1         |                        |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NASO <sub>5</sub> |                            |
| BH09                  | S      | 08.01.22     | 1340         | 4'    | G         | 1         |                        |                  | Zn Acetate+NaOH: Zn   |                            |
| BH09                  | S      | 08.01.22     | 1340         | 4'    | G         | 1         |                        |                  | NaOH+Ascorbic Acid: SACP  |                            |

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

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|                              |                          |            |                              |                          |           |
|------------------------------|--------------------------|------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time  | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|                              | <i>[Signature]</i>       | 8-2-22 953 |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |



### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2704-1

SDG Number: 03E1558045

Login Number: 2704

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2704-1

SDG Number: 03E1558045

Login Number: 2704

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/03/22 10:15 AM

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

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Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 890-2380-1  
Laboratory Sample Delivery Group: 03E1558045  
Client Project/Site: BEU Connector PW Booster  
Revision: 1

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

Attn: Ben Belill

Authorized for release by:  
10/10/2022 3:17:14 PM

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

### LINKS

Review your project  
results through



Have a Question?



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

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

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Client: Ensolum  
Project/Site: BEU Connector PW Booster

Laboratory Job ID: 890-2380-1  
SDG: 03E1558045

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## Definitions/Glossary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

## 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

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

## HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

**Job ID: 890-2380-1**

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative  
890-2380-1**

REVISION

The report being provided is a revision of the original report sent on 6/10/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID changes.

Report revision history

**Receipt**

The samples were received on 6/6/2022 12:24 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 29.4°C

**GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-27017 and analytical batch 880-26971 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

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

**HPLC/IC**

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



## Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

Client Sample ID: SS06

Lab Sample ID: 890-2380-1

Date Collected: 06/06/22 08:25

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 01:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 01:32 | 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 |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 11:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 11:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 11:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 113       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 11:31 | 1       |
| o-Terphenyl    | 111       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 11:31 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6310   |           | 49.8 | mg/Kg |   |          | 06/09/22 22:16 | 10      |

Client Sample ID: SS07

Lab Sample ID: 890-2380-2

Date Collected: 06/06/22 08:30

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 01:52 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 01:52 | 1       |

Eurofins Carlsbad



## Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

Client Sample ID: SS07

Lab Sample ID: 890-2380-2

Date Collected: 06/06/22 08:30

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99        |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 01:52 | 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 |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:34 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:34 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:34 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85        |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 12:34 | 1       |
| o-Terphenyl    | 85        |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 12:34 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.3   |           | 4.96 | mg/Kg |   |          | 06/09/22 22:25 | 1       |

Client Sample ID: SS08

Lab Sample ID: 890-2380-3

Date Collected: 06/06/22 08:35

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 02:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 02:12 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

## Client Sample ID: SS08

Date Collected: 06/06/22 08:35

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

## Lab Sample ID: 890-2380-3

Matrix: Solid

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:55 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 12:55 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 107       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 12:55 | 1       |
| o-Terphenyl                          | 101       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 12:55 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 16.2   |           | 4.99 | mg/Kg |   |          | 06/09/22 22:53 | 1       |

## Client Sample ID: SS09

Date Collected: 06/06/22 08:40

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

## Lab Sample ID: 890-2380-4

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |       |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |       |   | 06/07/22 14:58 | 06/08/22 02:33 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:16 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 13:16 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 13:16 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

**Client Sample ID: SS09**  
 Date Collected: 06/06/22 08:40  
 Date Received: 06/06/22 12:24  
 Sample Depth: 0.5'

**Lab Sample ID: 890-2380-4**  
 Matrix: Solid

**Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3970   |           | 24.9 | mg/Kg |   |          | 06/09/22 23:02 | 5       |

**Client Sample ID: SS04**  
 Date Collected: 06/06/22 08:45  
 Date Received: 06/06/22 12:24  
 Sample Depth: 0.5'

**Lab Sample ID: 890-2380-5**  
 Matrix: Solid

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

| Analyte                     | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00200         | U                | 0.00200       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| Toluene                     | <0.00200         | U                | 0.00200       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| Ethylbenzene                | <0.00200         | U                | 0.00200       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| m-Xylene & p-Xylene         | <0.00400         | U                | 0.00400       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| o-Xylene                    | <0.00200         | U                | 0.00200       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| Xylenes, Total              | <0.00400         | U                | 0.00400       | mg/Kg |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 112              |                  | 70 - 130      |       |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |
| 1,4-Difluorobenzene (Surr)  | 100              |                  | 70 - 130      |       |   | 06/07/22 14:58  | 06/08/22 02:53  | 1              |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          | mg/Kg |   | 06/08/22 17:15  | 06/09/22 13:38  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                | 50.0          | mg/Kg |   | 06/08/22 17:15  | 06/09/22 13:38  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          | mg/Kg |   | 06/08/22 17:15  | 06/09/22 13:38  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 106              |                  | 70 - 130      |       |   | 06/08/22 17:15  | 06/09/22 13:38  | 1              |
| o-Terphenyl                          | 103              |                  | 70 - 130      |       |   | 06/08/22 17:15  | 06/09/22 13:38  | 1              |

**Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 7100   |           | 50.2 | mg/Kg |   |          | 06/09/22 23:11 | 10      |

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## Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

Client Sample ID: SS03

Lab Sample ID: 890-2380-6

Date Collected: 06/06/22 08:50

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:14 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:14 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:59 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:59 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 06/08/22 17:15 | 06/09/22 13:59 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 13:59 | 1       |
| o-Terphenyl    | 110       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 13:59 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6140   |           | 50.1 | mg/Kg |   |          | 06/09/22 23:20 | 10      |

Client Sample ID: SS02

Lab Sample ID: 890-2380-7

Date Collected: 06/06/22 08:55

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:34 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:34 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

Client Sample ID: SS02

Lab Sample ID: 890-2380-7

Date Collected: 06/06/22 08:55

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:34 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 06/08/22 15:52 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 54.1   |           | 49.9 | mg/Kg |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg          |                | 06/08/22 17:15 | 06/09/22 14:21 | 1       |
| Diesel Range Organics (Over C10-C28) | 54.1      |           | 49.9     | mg/Kg          |                | 06/08/22 17:15 | 06/09/22 14:21 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg          |                | 06/08/22 17:15 | 06/09/22 14:21 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac        |                |         |
| 1-Chlorooctane                       | 106       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 14:21 | 1              |                |         |
| o-Terphenyl                          | 105       |           | 70 - 130 | 06/08/22 17:15 | 06/09/22 14:21 | 1              |                |         |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4270   |           | 49.9 | mg/Kg |   |          | 06/09/22 23:29 | 10      |

Client Sample ID: SS01

Lab Sample ID: 890-2380-8

Date Collected: 06/06/22 09:00

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 03:55 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 06/07/22 14:58 | 06/08/22 03:55 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

**Client Sample ID: SS01**  
**Date Collected: 06/06/22 09:00**  
**Date Received: 06/06/22 12:24**  
**Sample Depth: 0.5'**

**Lab Sample ID: 890-2380-8**  
**Matrix: Solid**

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 14:44 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 14:44 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 14:44 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 14:44 | 1       |
| o-Terphenyl                          | 94        |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 14:44 | 1       |

**Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5120   |           | 50.5 | mg/Kg |   |          | 06/09/22 23:39 | 10      |

**Client Sample ID: SS05**  
**Date Collected: 06/06/22 09:05**  
**Date Received: 06/06/22 12:24**  
**Sample Depth: 0.5'**

**Lab Sample ID: 890-2380-9**  
**Matrix: Solid**

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  | mg/Kg |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |       |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 |       |   | 06/07/22 14:58 | 06/08/22 05:45 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 06/08/22 15:52 | 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 |   |          | 06/10/22 09:57 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 15:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 15:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 15:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 15:06 | 1       |
| o-Terphenyl                          | 118       |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 15:06 | 1       |

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### Client Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

**Client Sample ID: SS05**

**Lab Sample ID: 890-2380-9**

Date Collected: 06/06/22 09:05

Matrix: Solid

Date Received: 06/06/22 12:24

Sample Depth: 0.5'

**Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5020   |           | 50.3 | mg/Kg |   |          | 06/09/22 23:48 | 10      |

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

## Surrogate Summary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | BFB1     | DFBZ1    |
|--------------------|------------------------|----------|----------|
|                    |                        | (70-130) | (70-130) |
| 890-2374-A-5-C MS  | Matrix Spike           | 108      | 100      |
| 890-2374-A-5-D MSD | Matrix Spike Duplicate | 110      | 100      |
| 890-2380-1         | SS06                   | 107      | 97       |
| 890-2380-2         | SS07                   | 107      | 99       |
| 890-2380-3         | SS08                   | 116      | 100      |
| 890-2380-4         | SS09                   | 112      | 92       |
| 890-2380-5         | SS04                   | 112      | 100      |
| 890-2380-6         | SS03                   | 116      | 95       |
| 890-2380-7         | SS02                   | 108      | 93       |
| 890-2380-8         | SS01                   | 110      | 98       |
| 890-2380-9         | SS05                   | 112      | 98       |
| LCS 880-27017/1-A  | Lab Control Sample     | 108      | 99       |
| LCSD 880-27017/2-A | Lab Control Sample Dup | 108      | 97       |
| MB 880-26988/5-A   | Method Blank           | 98       | 100      |
| MB 880-27017/5-A   | Method Blank           | 99       | 95       |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | 1CO1     | OTPH1    |
|--------------------|------------------------|----------|----------|
|                    |                        | (70-130) | (70-130) |
| 890-2380-1         | SS06                   | 113      | 111      |
| 890-2380-1 MS      | SS06                   | 95       | 82       |
| 890-2380-1 MSD     | SS06                   | 101      | 89       |
| 890-2380-2         | SS07                   | 85       | 85       |
| 890-2380-3         | SS08                   | 107      | 101      |
| 890-2380-4         | SS09                   | 106      | 102      |
| 890-2380-5         | SS04                   | 106      | 103      |
| 890-2380-6         | SS03                   | 109      | 110      |
| 890-2380-7         | SS02                   | 106      | 105      |
| 890-2380-8         | SS01                   | 96       | 94       |
| 890-2380-9         | SS05                   | 115      | 118      |
| LCS 880-27115/2-A  | Lab Control Sample     | 118      | 109      |
| LCSD 880-27115/3-A | Lab Control Sample Dup | 106      | 99       |
| MB 880-27115/1-A   | Method Blank           | 95       | 98       |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

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

Lab Sample ID: MB 880-26988/5-A  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26988

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/07/22 08:57 | 06/07/22 12:43 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 06/07/22 08:57 | 06/07/22 12:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 06/07/22 08:57 | 06/07/22 12:43 | 1       |

Lab Sample ID: MB 880-27017/5-A  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 06/07/22 14:58 | 06/08/22 00:22 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 06/07/22 14:58 | 06/08/22 00:22 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95           |              | 70 - 130 | 06/07/22 14:58 | 06/08/22 00:22 | 1       |

Lab Sample ID: LCS 880-27017/1-A  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09392    |               | mg/Kg |   | 94   | 70 - 130    |
| Toluene             | 0.100       | 0.09786    |               | mg/Kg |   | 98   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09108    |               | mg/Kg |   | 91   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2075     |               | mg/Kg |   | 104  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1041     |               | mg/Kg |   | 104  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99            |               | 70 - 130 |

Lab Sample ID: LCSD 880-27017/2-A  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08291     |                | mg/Kg |   | 83   | 70 - 130    | 12  | 35        |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

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

Lab Sample ID: LCSD 880-27017/2-A  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte                     | Spike Added      | LCSD Result      | LCSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|-----------------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-----|-------|
|                             |                  |                  |                |       |   |      | Limits   | RPD |     |       |
| Toluene                     | 0.100            | 0.09423          |                | mg/Kg |   | 94   | 70 - 130 | 4   | 35  |       |
| Ethylbenzene                | 0.100            | 0.08889          |                | mg/Kg |   | 89   | 70 - 130 | 2   | 35  |       |
| m-Xylene & p-Xylene         | 0.200            | 0.2054           |                | mg/Kg |   | 103  | 70 - 130 | 1   | 35  |       |
| o-Xylene                    | 0.100            | 0.1029           |                | mg/Kg |   | 103  | 70 - 130 | 1   | 35  |       |
|                             |                  | <b>LCSD</b>      | <b>LCSD</b>    |       |   |      |          |     |     |       |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b>  |       |   |      |          |     |     |       |
| 4-Bromofluorobenzene (Surr) | 108              |                  | 70 - 130       |       |   |      |          |     |     |       |
| 1,4-Difluorobenzene (Surr)  | 97               |                  | 70 - 130       |       |   |      |          |     |     |       |

Lab Sample ID: 890-2374-A-5-C MS  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte                     | Sample Result    | Sample Qualifier | Spike Added   | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|----------|-----|-----|-------|
|                             |                  |                  |               |           |              |       |   |      | Limits   | RPD |     |       |
| Benzene                     | <0.00201         | U F1             | 0.100         | 0.05763   | F1           | mg/Kg |   | 58   | 70 - 130 |     |     |       |
| Toluene                     | <0.00201         | U                | 0.100         | 0.07360   |              | mg/Kg |   | 73   | 70 - 130 |     |     |       |
| Ethylbenzene                | <0.00201         | U                | 0.100         | 0.07003   |              | mg/Kg |   | 70   | 70 - 130 |     |     |       |
| m-Xylene & p-Xylene         | <0.00402         | U                | 0.200         | 0.1634    |              | mg/Kg |   | 82   | 70 - 130 |     |     |       |
| o-Xylene                    | <0.00201         | U                | 0.100         | 0.08332   |              | mg/Kg |   | 83   | 70 - 130 |     |     |       |
|                             |                  | <b>MS</b>        | <b>MS</b>     |           |              |       |   |      |          |     |     |       |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |              |       |   |      |          |     |     |       |
| 4-Bromofluorobenzene (Surr) | 108              |                  | 70 - 130      |           |              |       |   |      |          |     |     |       |
| 1,4-Difluorobenzene (Surr)  | 100              |                  | 70 - 130      |           |              |       |   |      |          |     |     |       |

Lab Sample ID: 890-2374-A-5-D MSD  
Matrix: Solid  
Analysis Batch: 26971

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 27017

| Analyte                     | Sample Result    | Sample Qualifier | Spike Added   | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|----------|-----|-----|-------|
|                             |                  |                  |               |            |               |       |   |      | Limits   | RPD |     |       |
| Benzene                     | <0.00201         | U F1             | 0.0990        | 0.07694    |               | mg/Kg |   | 78   | 70 - 130 | 29  | 35  |       |
| Toluene                     | <0.00201         | U                | 0.0990        | 0.08291    |               | mg/Kg |   | 84   | 70 - 130 | 12  | 35  |       |
| Ethylbenzene                | <0.00201         | U                | 0.0990        | 0.07812    |               | mg/Kg |   | 79   | 70 - 130 | 11  | 35  |       |
| m-Xylene & p-Xylene         | <0.00402         | U                | 0.198         | 0.1796     |               | mg/Kg |   | 91   | 70 - 130 | 9   | 35  |       |
| o-Xylene                    | <0.00201         | U                | 0.0990        | 0.09055    |               | mg/Kg |   | 91   | 70 - 130 | 8   | 35  |       |
|                             |                  | <b>MSD</b>       | <b>MSD</b>    |            |               |       |   |      |          |     |     |       |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |            |               |       |   |      |          |     |     |       |
| 4-Bromofluorobenzene (Surr) | 110              |                  | 70 - 130      |            |               |       |   |      |          |     |     |       |
| 1,4-Difluorobenzene (Surr)  | 100              |                  | 70 - 130      |            |               |       |   |      |          |     |     |       |

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

Lab Sample ID: MB 880-27115/1-A  
Matrix: Solid  
Analysis Batch: 27121

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 27115

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|------|---|----------|----------|---------|
|         |           |              |    |      |   |          |          |         |

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### QC Sample Results

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

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

**Lab Sample ID: MB 880-27115/1-A**  
**Matrix: Solid**  
**Analysis Batch: 27121**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 27115**

| Analyte                              | MB MB     |           | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                                      | Result    | Qualifier |          |       |   |                |                |         |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 10:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 06/08/22 17:15 | 06/09/22 10:28 | 1       |
| Surrogate                            | MB MB     |           | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |       |   |                |                |         |
| 1-Chlorooctane                       | 95        |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 10:28 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |       |   | 06/08/22 17:15 | 06/09/22 10:28 | 1       |

**Lab Sample ID: LCS 880-27115/2-A**  
**Matrix: Solid**  
**Analysis Batch: 27121**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 27115**

| Analyte                              | Spike Added | LCS LCS   |           | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|
|                                      |             | Result    | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1105      |           | mg/Kg |   | 111  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1128      |           | mg/Kg |   | 113  | 70 - 130    |
| Surrogate                            | LCS LCS     |           | Limits    |       |   | %Rec | Limits      |
|                                      | %Recovery   | Qualifier |           |       |   |      |             |
| 1-Chlorooctane                       | 118         |           | 70 - 130  |       |   |      |             |
| o-Terphenyl                          | 109         |           | 70 - 130  |       |   |      |             |

**Lab Sample ID: LCSD 880-27115/3-A**  
**Matrix: Solid**  
**Analysis Batch: 27121**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 27115**

| Analyte                              | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec Limits | RPD |       |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|-----|-------|
|                                      |             | Result    | Qualifier |       |   |      |             | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 928.0     |           | mg/Kg |   | 93   | 70 - 130    | 17  | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1017      |           | mg/Kg |   | 102  | 70 - 130    | 10  | 20    |
| Surrogate                            | LCSD LCSD   |           | Limits    |       |   | %Rec | Limits      |     |       |
|                                      | %Recovery   | Qualifier |           |       |   |      |             |     |       |
| 1-Chlorooctane                       | 106         |           | 70 - 130  |       |   |      |             |     |       |
| o-Terphenyl                          | 99          |           | 70 - 130  |       |   |      |             |     |       |

**Lab Sample ID: 890-2380-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 27121**

**Client Sample ID: SS06**  
**Prep Type: Total/NA**  
**Prep Batch: 27115**

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS MS  |           | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|--------|-----------|-------|---|------|-------------|
|                                      |               |                  |             | Result | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 997         | 869.3  |           | mg/Kg |   | 83   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 997         | 783.0  |           | mg/Kg |   | 77   | 70 - 130    |
| Surrogate                            | MS MS         |                  | Limits      |        |           |       |   | %Rec | Limits      |
|                                      | %Recovery     | Qualifier        |             |        |           |       |   |      |             |
| 1-Chlorooctane                       | 95            |                  | 70 - 130    |        |           |       |   |      |             |
| o-Terphenyl                          | 82            |                  | 70 - 130    |        |           |       |   |      |             |

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### QC Sample Results

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

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

Lab Sample ID: 890-2380-1 MSD  
Matrix: Solid  
Analysis Batch: 27121

Client Sample ID: SS06  
Prep Type: Total/NA  
Prep Batch: 27115

| Analyte                              | Sample Result    | Sample Qualifier     | Spike Added       | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|-------------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                    | 1000              | 1012       |               | mg/Kg |   | 97   | 70 - 130    | 15  | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                    | 1000              | 855.9      |               | mg/Kg |   | 84   | 70 - 130    | 9   | 20        |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>MSD Qualifier</b> | <b>MSD Limits</b> |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 101              |                      | 70 - 130          |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 89               |                      | 70 - 130          |            |               |       |   |      |             |     |           |

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

Lab Sample ID: MB 880-27034/1-A  
Matrix: Solid  
Analysis Batch: 27220

Client Sample ID: Method Blank  
Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 06/09/22 19:11 | 1       |

Lab Sample ID: LCS 880-27034/2-A  
Matrix: Solid  
Analysis Batch: 27220

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 264.6      |               | mg/Kg |   | 106  | 90 - 110    |

Lab Sample ID: LCSD 880-27034/3-A  
Matrix: Solid  
Analysis Batch: 27220

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

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 254.6       |                | mg/Kg |   | 102  | 90 - 110    | 4   | 20        |

Lab Sample ID: 880-15527-A-2-C MS  
Matrix: Solid  
Analysis Batch: 27220

Client Sample ID: Matrix Spike  
Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 53.2          |                  | 250         | 305.9     |              | mg/Kg |   | 101  | 90 - 110    |

Lab Sample ID: 880-15527-A-2-D MSD  
Matrix: Solid  
Analysis Batch: 27220

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 53.2          |                  | 250         | 312.8      |               | mg/Kg |   | 104  | 90 - 110    | 2   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

## GC VOA

## Analysis Batch: 26971

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2380-1         | SS06                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-2         | SS07                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-3         | SS08                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-4         | SS09                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-5         | SS04                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-6         | SS03                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-7         | SS02                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-8         | SS01                   | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2380-9         | SS05                   | Total/NA  | Solid  | 8021B  | 27017      |
| MB 880-26988/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 26988      |
| MB 880-27017/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 27017      |
| LCS 880-27017/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 27017      |
| LCSD 880-27017/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2374-A-5-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 27017      |
| 890-2374-A-5-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 27017      |

## Prep Batch: 26988

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-26988/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 27017

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2380-1         | SS06                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-2         | SS07                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-3         | SS08                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-4         | SS09                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-5         | SS04                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-6         | SS03                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-7         | SS02                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-8         | SS01                   | Total/NA  | Solid  | 5035   |            |
| 890-2380-9         | SS05                   | Total/NA  | Solid  | 5035   |            |
| MB 880-27017/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-27017/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-27017/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2374-A-5-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2374-A-5-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 27106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2380-1    | SS06             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-2    | SS07             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-3    | SS08             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-4    | SS09             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-5    | SS04             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-6    | SS03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-7    | SS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-8    | SS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2380-9    | SS05             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: BEU Connector PW BoosterJob ID: 890-2380-1  
SDG: 03E1558045

## GC Semi VOA

## Prep Batch: 27115

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2380-1         | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-2         | SS07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-3         | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-4         | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-5         | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-6         | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-7         | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-8         | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-9         | SS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-27115/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-27115/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-27115/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-1 MS      | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2380-1 MSD     | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 27121

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2380-1         | SS06                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-2         | SS07                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-3         | SS08                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-4         | SS09                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-5         | SS04                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-6         | SS03                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-7         | SS02                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-8         | SS01                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-9         | SS05                   | Total/NA  | Solid  | 8015B NM | 27115      |
| MB 880-27115/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 27115      |
| LCS 880-27115/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 27115      |
| LCSD 880-27115/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-1 MS      | SS06                   | Total/NA  | Solid  | 8015B NM | 27115      |
| 890-2380-1 MSD     | SS06                   | Total/NA  | Solid  | 8015B NM | 27115      |

## Analysis Batch: 27276

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2380-1    | SS06             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-2    | SS07             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-3    | SS08             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-4    | SS09             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-5    | SS04             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-6    | SS03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-7    | SS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-8    | SS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2380-9    | SS05             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 27034

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2380-1    | SS06             | Soluble   | Solid  | DI Leach |            |
| 890-2380-2    | SS07             | Soluble   | Solid  | DI Leach |            |
| 890-2380-3    | SS08             | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

## HPLC/IC (Continued)

## Leach Batch: 27034 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2380-4          | SS09                   | Soluble   | Solid  | DI Leach |            |
| 890-2380-5          | SS04                   | Soluble   | Solid  | DI Leach |            |
| 890-2380-6          | SS03                   | Soluble   | Solid  | DI Leach |            |
| 890-2380-7          | SS02                   | Soluble   | Solid  | DI Leach |            |
| 890-2380-8          | SS01                   | Soluble   | Solid  | DI Leach |            |
| 890-2380-9          | SS05                   | Soluble   | Solid  | DI Leach |            |
| MB 880-27034/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-27034/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-27034/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-15527-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-15527-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 27220

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2380-1          | SS06                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-2          | SS07                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-3          | SS08                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-4          | SS09                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-5          | SS04                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-6          | SS03                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-7          | SS02                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-8          | SS01                   | Soluble   | Solid  | 300.0  | 27034      |
| 890-2380-9          | SS05                   | Soluble   | Solid  | 300.0  | 27034      |
| MB 880-27034/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 27034      |
| LCS 880-27034/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 27034      |
| LCSD 880-27034/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 27034      |
| 880-15527-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 27034      |
| 880-15527-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 27034      |

### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

**Client Sample ID: SS06**

**Lab Sample ID: 890-2380-1**

Date Collected: 06/06/22 08:25

Matrix: Solid

Date Received: 06/06/22 12:24

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 01:32       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 11:31       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 22:16       | CH      | EET MID |

**Client Sample ID: SS07**

**Lab Sample ID: 890-2380-2**

Date Collected: 06/06/22 08:30

Matrix: Solid

Date Received: 06/06/22 12:24

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 01:52       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 12:34       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 27220        | 06/09/22 22:25       | CH      | EET MID |

**Client Sample ID: SS08**

**Lab Sample ID: 890-2380-3**

Date Collected: 06/06/22 08:35

Matrix: Solid

Date Received: 06/06/22 12:24

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 02:12       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 12:55       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 27220        | 06/09/22 22:53       | CH      | EET MID |

**Client Sample ID: SS09**

**Lab Sample ID: 890-2380-4**

Date Collected: 06/06/22 08:40

Matrix: Solid

Date Received: 06/06/22 12:24

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 02:33       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

**Client Sample ID: SS09**  
**Date Collected: 06/06/22 08:40**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-4**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 13:16       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 27220        | 06/09/22 23:02       | CH      | EET MID |

**Client Sample ID: SS04**  
**Date Collected: 06/06/22 08:45**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-5**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 02:53       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 13:38       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 23:11       | CH      | EET MID |

**Client Sample ID: SS03**  
**Date Collected: 06/06/22 08:50**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-6**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 03:14       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 13:59       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 23:20       | CH      | EET MID |

**Client Sample ID: SS02**  
**Date Collected: 06/06/22 08:55**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-7**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 03:34       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 14:21       | AJ      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
 SDG: 03E1558045

**Client Sample ID: SS02**  
**Date Collected: 06/06/22 08:55**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-7**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 23:29       | CH      | EET MID |

**Client Sample ID: SS01**  
**Date Collected: 06/06/22 09:00**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-8**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 03:55       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 14:44       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 23:39       | CH      | EET MID |

**Client Sample ID: SS05**  
**Date Collected: 06/06/22 09:05**  
**Date Received: 06/06/22 12:24**

**Lab Sample ID: 890-2380-9**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 27017        | 06/07/22 14:58       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 26971        | 06/08/22 05:45       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 27106        | 06/08/22 15:52       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 27276        | 06/10/22 09:57       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 27115        | 06/08/22 17:15       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 27121        | 06/09/22 15:06       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 27034        | 06/07/22 16:09       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 27220        | 06/09/22 23:48       | CH      | EET MID |

**Laboratory References:**

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



### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

#### Laboratory: Eurofins Midland

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

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

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

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

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# Method Summary

Client: Ensolum  
Project/Site: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

| 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: BEU Connector PW Booster

Job ID: 890-2380-1  
SDG: 03E1558045

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2380-1    | SS06             | Solid  | 06/06/22 08:25 | 06/06/22 12:24 | 0.5'  |
| 890-2380-2    | SS07             | Solid  | 06/06/22 08:30 | 06/06/22 12:24 | 0.5'  |
| 890-2380-3    | SS08             | Solid  | 06/06/22 08:35 | 06/06/22 12:24 | 0.5'  |
| 890-2380-4    | SS09             | Solid  | 06/06/22 08:40 | 06/06/22 12:24 | 0.5'  |
| 890-2380-5    | SS04             | Solid  | 06/06/22 08:45 | 06/06/22 12:24 | 0.5'  |
| 890-2380-6    | SS03             | Solid  | 06/06/22 08:50 | 06/06/22 12:24 | 0.5'  |
| 890-2380-7    | SS02             | Solid  | 06/06/22 08:55 | 06/06/22 12:24 | 0.5'  |
| 890-2380-8    | SS01             | Solid  | 06/06/22 09:00 | 06/06/22 12:24 | 0.5'  |
| 890-2380-9    | SS05             | Solid  | 06/06/22 09:05 | 06/06/22 12:24 | 0.5'  |

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Environment Testing Xenco

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

Chain of Custody

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

www.xenco.com Page 1 of 1

Project Manager: Ben Bellill  
 Company Name: Ensolva  
 Address: \_\_\_\_\_  
 City, State ZIP: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Bill to: (if different) \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State ZIP: \_\_\_\_\_  
 Email: bbellill@ensolva.com

Work Order Comments  
 Program:  UST/PST  PPP  Brownfields  RRC  Superfund   
 State of Project: \_\_\_\_\_  
 Reporting: Level II  Level III  PST/UST  TRIP  Level IV   
 Deliverables: EDD  ADAPT  Other: \_\_\_\_\_

Project Name: BEV CANTINA PUB KASEL  
 Project Number: 03E155 8045  
 Project Location: 322907-1038615  
 Project Date: \_\_\_\_\_  
 Due Date: \_\_\_\_\_  
 TAT starts the day received by the lab, if received by 4:30pm  
 Sample's Name: Kase Kachel  
 PO #: \_\_\_\_\_  
 Turn Around:  Routine  Rush  
 Pre-Code: \_\_\_\_\_  
 SAMPLE RECEIPT: Temp Blank: Yes (No) Wet Ice: Yes (No)  
 Samples Received Inact: Yes (No) Thermometer ID: T-111-201  
 Cooler Custody Seals: Yes (No) Correction Factor: -0.22  
 Sample Custody Seals: Yes (No) Temperature Reading: 29.14  
 Total Containers: Corrected Temperature: 29.14  
 Parameters: BTEX, TPH, Chlorides



890-2380 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Preservative Codes  |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|---|
| 5501                  | S      | 6/6/22       | 0825         | 6.5ft |           | N         | DI Water: H <sub>2</sub> O  |
| 5502                  |        |              | 0830         |       |           | N         | MeOH: Me  |
| 5503                  |        |              | 0835         |       |           | N         | HCL: HC HNO <sub>3</sub> : HN                                     |
| 5504                  |        |              | 0840         |       |           | N         | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na          |
| 5505                  |        |              | 0845         |       |           | N         | H <sub>3</sub> PO <sub>4</sub> : HP                               |
| 5506                  |        |              | 0850         |       |           | N         | NaHSO <sub>4</sub> : NABIS  |
| 5507                  |        |              | 0855         |       |           | N         | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> |
| 5508                  |        |              | 0900         |       |           | N         | Zn Acetate+NaOH: Zn   |
| 5509                  |        |              | 0905         |       |           | N         | NaOH+Ascorbic Acid: SABC  |

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

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

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2380-1  
SDG Number: 03E1558045

**Login Number: 2380**  
**List Number: 1**  
**Creator: Stutzman, Amanda**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2380-1  
SDG Number: 03E1558045

**Login Number: 2380**  
**List Number: 2**  
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**  
**List Creation: 06/07/22 12:08 PM**

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

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APPENDIX E  
NMOCD Notifications

---

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Collins, Melanie](#)  
**Cc:** [DelawareSpills /SM](#); [Pennington, Shelby G](#); [Green, Garrett J](#); [Ben Belli](#); [Tacoma Morrissey](#); [Kalei Jennings](#); [Bratcher, Mike, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** (Extension Approval) - XTO - BEU Connector PW Booster / NAPP2213151424  
**Date:** Friday, July 22, 2022 4:42:46 PM  
**Attachments:** [image002.jpg](#)  
[image003.png](#)

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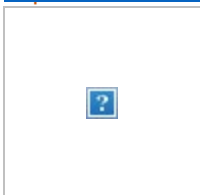
[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #NAPP2213151424

**Melanie,**

Your request for an extension to **October 24th, 2022** is approved. Please keep us up to date on the Right of Entry (ROE) Permit. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Friday, July 22, 2022 1:56 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; Pennington, Shelby G <[shelby.g.pennington@exxonmobil.com](mailto:shelby.g.pennington@exxonmobil.com)>; Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [bbelill@ensolum.com](mailto:bbelill@ensolum.com); Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Kalei Jennings <[kjennings@ensolum.com](mailto:kjennings@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Extension Request - BEU Connector PW Booster / NAPP2213151424

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension of the current deadline of July 26, 2022, for submitting a

remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the BEU Connector PW Booster (Incident Number NAPP2213151424). The release occurred on April 27, 2022 and an initial site assessment of the release was conducted. Fluids were released into the pasture area due to a flanged-end fitting separating from a hose while moving produced water. Initial assessment and sampling was conducted and excavation is pending. A Right of Entry (ROE) Permit was submitted to the State Land Office (SLO) in July 2022 and the executed permit has yet to be received. In order to complete the remediation work and submit a remediation work plan or closure report XTO requests a 90-day extension of this deadline until October 24, 2022.

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

**From:** [Green, Garrett J](#)  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us); [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#)  
**Cc:** [Tacoma Morrissey](#); [Kalei Jennings](#); [DelawareSpills /SM](#)  
**Subject:** XTO - Sampling Notification (Week of 8/1/22 - 8/5/22)  
**Date:** Friday, July 29, 2022 4:11:00 PM

---

[ \*\*EXTERNAL EMAIL\*\* ]

All,

XTO plans to complete final sampling activities at the following sites the week of August 1, 2022.

Monday

- PLU C1 Frac Pond / NAPP2207743395
- BEU Connector PW Booster / nAPP2213151424

Tuesday

- BEU Connector PW Booster / nAPP2213151424
- Goldenchild CTB / nAPP2035256230, nAPP2102237559, nAPP2101335437, & nAPP2101331137

Wednesday

- BEU Connector PW Booster / nAPP2213151424
- Ross Draw 25 NW Battery / NAPP2201444794

Thursday

- PLU 89 / NRM1932350962

Thank you,

**Garrett Green**

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

[Garrett.Green@ExxonMobil.com](mailto:Garrett.Green@ExxonMobil.com)

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



## APPENDIX D

### Proposed Reclamation Plan

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XTO Energy, Inc.  
Remediation Work Plan Update  
BEU Connector PW Booster and Mobley Ranch

## PROPOSED RECLAMATION PLAN

The release occurred off pad in the pasture within the pipeline ROW and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil and vegetation will be assessed during excavation activities to determine the proper weed-free seed mix designed by the NMSLO to meet reclamation standards for this region;
- The seed mixture will be distributed with one or more of the following mechanisms: push broadcaster seed spreader / tractor operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management will potentially include:
  - The placement of wattles in areas with a propensity for high run off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be completed following receipt of confirmation soil samples indicating all chemicals of concern concentrations are in compliance with the Closure Criteria and/or the reclamation requirement;
- Seeding is anticipated to be completed in when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.





## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc.

BEU Connector PW Booster and Mobley Ranch

Incident Numbers NAPP2213151424 and NAPP2316045229



Photograph: 1 Date: 4/28/2022  
Description: Soil staining in NAPP2213151424 release  
View: North

Photograph: 2 Date: 8/1/2022  
Description: Soil staining in NAPP2316045229 release  
View: Northeast



Photograph: 3 Date: 10/23/2023  
Description: Ongoing excavation activities  
View: Southwest

Photograph: 4 Date: 10/25/2023  
Description: Ongoing excavation activities  
View: North





Photographic Log

XTO Energy, Inc.

BEU Connector PW Booster and Mobley Ranch

Incident Numbers NAPP2213151424 and NAPP2316045229



Photograph: 1 Date: 10/30/2023  
Description: Final excavation extent  
View: South

Photograph: 2 Date: 11/01/2023  
Description: Final excavation extent  
View: South



Photograph: 3 Date: 12/13/2023  
Description: Backfill activities  
View: South

Photograph: 4 Date: 12/13/2023  
Description: Backfill activities  
View: North



## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 20, 2023

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU CONNECTOR PW BOOSTER/MOBLEY RANCH PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE\ | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                       | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 01 2FT (H235719-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.04 | 102        | 2.00          | 4.67 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.09 | 104        | 2.00          | 5.21 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.11 | 105        | 2.00          | 3.69 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.28 | 105        | 6.00          | 3.03 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                     | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                      | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 02 2FT (H235719-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.04 | 102        | 2.00          | 4.67 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.09 | 104        | 2.00          | 5.21 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.11 | 105        | 2.00          | 3.69 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.28 | 105        | 6.00          | 3.03 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                       | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 03 2FT (H235719-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.04 | 102        | 2.00          | 4.67 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.09 | 104        | 2.00          | 5.21 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.11 | 105        | 2.00          | 3.69 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.28 | 105        | 6.00          | 3.03 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                       | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 04 2FT (H235719-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.04 | 102        | 2.00          | 4.67 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.09 | 104        | 2.00          | 5.21 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.11 | 105        | 2.00          | 3.69 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.28 | 105        | 6.00          | 3.03 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 416    | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                     | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                      | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 05 3FT (H235719-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 2.19 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.08 | 104        | 2.00          | 3.71 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 4.59 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.53 | 109        | 6.00          | 5.05 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE\ | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                       | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 06 2.5FT (H235719-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 2.19 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.08 | 104        | 2.00          | 3.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 4.59 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.53 | 109        | 6.00          | 5.05 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/18/2023     |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C558043                       | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 07 2FT (H235719-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 2.19 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.08 | 104        | 2.00          | 3.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 4.59 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.53 | 109        | 6.00          | 5.05 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 10/20/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 206 | 103        | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 3.68 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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\*=Accredited Analyte

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**Notes and Definitions**

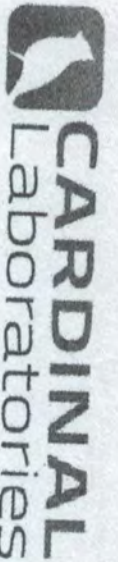
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bellini  
 Address: 3122 National Parks Hwy  
 City: Carlisbad State: NM Zip: 88220  
 Phone #: 989-854-0882 Fax #:   
 Project #: 03C1558043 Project Owner:   
 Project Name: BEU Connect / Mabley Ranch / Pelina  
 Project Location: 32.2907 - 103.86159  
 Sampler Name: Sarah Weltony

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |          | DATE | TIME | ANALYSIS |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|------|------|----------|
|          |             |              |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER :  |      |      |          |
| HE35719  | 1 FSO1      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 | CI - |          |
|          | 2 FSO2      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 | BTEX |          |
|          | 3 FSO3      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 | TPH  |          |
|          | 4 FSO4      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 |      |          |
|          | 5 FSO5      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 |      |          |
|          | 6 FSO6      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 |      |          |
|          | 7 FSO7      | 2.44         | CI                | 1            |             |            |      |     |        | 10/18/23 | 9:46 |      |          |

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Relinquished By: *[Signature]* Date: 10-19-23 Received By: *[Signature]* Date: 10-19-23

Delivered By: (Circle One) Observed Temp.: °C 0.1 Sample Condition: Cool Intact  Yes  No Corrected Temp.: °C  Yes  No

Sampler - UPS - Bus - Other:  Yes  No

Checked By: *[Signature]* Initials: *[Signature]*

Turnaround Time: Standard  Rush  Bacteria (only) Sample Condition: Cool Intact  Yes  No Corrected Temp.: °C  Yes  No

Remarks: *[Handwritten notes]*

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabslabnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 20, 2023

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU CONNECTOR PW BOOSTER/MOBLEY RANCH PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 16:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                  |
|-------------------|---------------------------------|---------------------|------------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/19/2023       |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil             |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE\ | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C558043                       | Sample Received By: | Shalyn Rodriguez |
| Project Location: | 32.2907,-103.86159              |                     |                  |

**Sample ID: FS 08 2 (H235734-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 1.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.21 | 110        | 2.00          | 2.17 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 4.02 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.30 | 105        | 6.00          | 5.68 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 10/20/2023 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 182 | 90.9       | 200           | 1.33  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 0.530 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                  |
|-------------------|---------------------------------|---------------------|------------------|
| Received:         | 10/19/2023                      | Sampling Date:      | 10/19/2023       |
| Reported:         | 10/20/2023                      | Sampling Type:      | Soil             |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C558043                       | Sample Received By: | Shalyn Rodriguez |
| Project Location: | 32.2907,-103.86159              |                     |                  |

**Sample ID: FS 09 2 (H235734-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 1.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.21 | 110        | 2.00          | 2.17 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 4.02 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.30 | 105        | 6.00          | 5.68 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/20/2023 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 182 | 90.9       | 200           | 1.33  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 0.530 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                  |
|-------------------|--------------------------------|---------------------|------------------|
| Received:         | 10/19/2023                     | Sampling Date:      | 10/19/2023       |
| Reported:         | 10/20/2023                     | Sampling Type:      | Soil             |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C558043                      | Sample Received By: | Shalyn Rodriguez |
| Project Location: | 32.2907,-103.86159             |                     |                  |

**Sample ID: FS 10 2 (H235734-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 1.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.21 | 110        | 2.00          | 2.17 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 4.02 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.30 | 105        | 6.00          | 5.68 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/20/2023 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 182 | 90.9       | 200           | 1.33  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 0.530 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                  |
|-------------------|--------------------------------|---------------------|------------------|
| Received:         | 10/19/2023                     | Sampling Date:      | 10/19/2023       |
| Reported:         | 10/20/2023                     | Sampling Type:      | Soil             |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C558043                      | Sample Received By: | Shalyn Rodriguez |
| Project Location: | 32.2907,-103.86159             |                     |                  |

**Sample ID: FS 11 2 (H235734-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 1.37 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.21 | 110        | 2.00          | 2.17 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 4.02 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.30 | 105        | 6.00          | 5.68 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 10/20/2023 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2023 | ND              | 182 | 90.9       | 200           | 1.33  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2023 | ND              | 195 | 97.7       | 200           | 0.530 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                  |
|-------------------|--------------------------------|---------------------|------------------|
| Received:         | 10/19/2023                     | Sampling Date:      | 10/19/2023       |
| Reported:         | 10/20/2023                     | Sampling Type:      | Soil             |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C558043                      | Sample Received By: | Shalyn Rodriguez |
| Project Location: | 32.2907,-103.86159             |                     |                  |

**Sample ID: SW 01 0-2 (H235734-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.17 | 108        | 2.00          | 1.37 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.21 | 110        | 2.00          | 2.17 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.16 | 108        | 2.00          | 4.02 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.30 | 105        | 6.00          | 5.68 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/20/2023 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 1.33  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 195 | 97.7       | 200           | 0.530 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bell

P.O. #: Company: XTO Energy

Address: 3122 National Parks Hwy

Attn: Garrett Green

City: Carlsbad

State: NM Zip: 88220

Address: 504 E Greent

Phone #: 969-854-0852 Fax #:

City: Midland

Project #: 3C1558045 Project Owner:

State: Texas Zip: 79620

Project Name: Blueconnect at Boostedwater Ranch/Fill

Phone #: 575-200-0287

Project Location: 32.2907, -103.86159

Fax #:

Sampler Name: Sreah we Vong

PRESERV. SAMPLING

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         |            | DATE           | TIME | CI - (SAM 4500) | BTEX | TPH |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|----------------|------|-----------------|------|-----|
|          |             |              |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: |                |      |                 |      |     |
| #035734  | FS08        | 2            | C                 | 1            |             | X          |      |     |        |         |            | 10/12/13 10:15 |      | X               |      |     |
|          | FS09        | 2            | C                 | 1            |             | X          |      |     |        |         |            | 10/12/13 10:20 |      | X               |      |     |
|          | FS10        | 2            | C                 | 1            |             | X          |      |     |        |         |            | 10/12/13 10:30 |      | X               |      |     |
|          | FS11        | 2            | C                 | 1            |             | X          |      |     |        |         |            | 10/12/13 10:35 |      | X               |      |     |
|          | SD01        | 0-2          | C                 | 1            |             | X          |      |     |        |         |            | 10/12/13 13:35 |      | X               |      |     |

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Relinquished By: *WVY* Date: *019-23* Received By: *Specklinery*

Delivered By: (Circle One) Observed Temp. °C: *5.2* Sample Condition: *OK*  
 Cooler Intact:  Yes  No  
 Corrected Temp. °C: *5.2* Checked BY: *SK*

Sampler - UPS - Bus - Other: Turnaround Time: *#140* Standard: *SK*  
 Thermometer ID: *#140* Bacteria (only) Sample Condition: *OK*  
 Correction Factor: *1.171001* Cool Intact:  Yes  No  
 Observed Temp. °C: *5.2* Corrected Temp. °C: *5.2*

Remarks: *Cost center: 1711001*  
 All Results are emailed. Please provide Email address: *BenBell@ensolum.com*  
 Incident # *NAPP2131519AY, NAPP2316045229*  
 MDR: *MDR@ensolum.com*  
 TMDR: *TMDR@ensolum.com*  
 MDR: *MDR@ensolum.com*  
 TMDR: *TMDR@ensolum.com*



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 23, 2023

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU CONNECTOR PW BOOSTER/MOBLEY RANCH PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 15:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 12 2FT (H235770-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 13 2FT (H235770-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>176</b> | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                 |
|-------------------|---------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                      | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                      | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                      | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159              |                     |                 |

**Sample ID: FS 14 2FT (H235770-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 7.69 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 15 2FT (H235770-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 704    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 16 2FT (H235770-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 7.69 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 17 3FT (H235770-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 368    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 3.92 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 18 3FT (H235770-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 19 3FT (H235770-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                 |
|-------------------|--------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                     | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                     | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                     | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159             |                     |                 |

**Sample ID: FS 20 3FT (H235770-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                 |
|-------------------|---------------------------------|---------------------|-----------------|
| Received:         | 10/20/2023                      | Sampling Date:      | 10/20/2023      |
| Reported:         | 10/23/2023                      | Sampling Type:      | Soil            |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLEY | Sampling Condition: | Cool & Intact   |
| Project Number:   | 03C1558045                      | Sample Received By: | Dionica Hinojos |
| Project Location: | 32.2907,-103.86159              |                     |                 |

**Sample ID: SW 02 0-3 (H235770-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.01 | 100        | 2.00          | 7.92 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2023 | ND              | 2.05 | 103        | 2.00          | 9.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2023 | ND              | 2.06 | 103        | 2.00          | 11.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2023 | ND              | 6.01 | 100        | 6.00          | 10.4 |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 10/23/2023 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/20/2023 | ND              | 185 | 92.5       | 200           | 1.90 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/20/2023 | ND              | 182 | 90.9       | 200           | 5.31 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/20/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: bea bellill  
 Address: 3122 National Parks Hwy  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: 505-454-0852 Fax #: \_\_\_\_\_  
 Project #: 03C1586043 Project Owner: Wadley Ranch Pipeline  
 Project Name: ED Converter A/B booster  
 Project Location: 32.2907, -103.46189  
 Sampler Name: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_  
 Company: XTO Energy  
 Attn: GARY GREEN  
 Address: 3101 E Green  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | PRESERV. | SAMPLING | DATE  | TIME           | ANALYSIS |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|----------|----------|-------|----------------|----------|
|          |             |              |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : |          |          |       |                |          |
| #235720  | FS12        | 2            | CT                |              |             | X          |      |     |        | X       |          | 10/20/23 | 9:25  | CI- (SA/44500) |          |
|          | FS13        | 2            | CT                |              |             | X          |      |     |        | X       |          | 12:00    | 9:25  | BTEX           |          |
|          | FS14        | 2            | CT                |              |             | X          |      |     |        | X       |          | 13:05    | 13:10 | PH             |          |
|          | FS15        | 2            | CT                |              |             | X          |      |     |        | X       |          | 13:12    | 13:15 |                |          |
|          | FS16        | 2            | CT                |              |             | X          |      |     |        | X       |          | 13:20    | 13:25 |                |          |
|          | FS17        | 2            | CT                |              |             | X          |      |     |        | X       |          | 13:25    | 13:30 |                |          |
|          | FS18        | 2            | CT                |              |             | X          |      |     |        | X       |          |          |       |                |          |
|          | FS19        | 2            | CT                |              |             | X          |      |     |        | X       |          |          |       |                |          |
|          | FS20        | 2            | CT                |              |             | X          |      |     |        | X       |          |          |       |                |          |
|          | FS21        | 2            | CT                |              |             | X          |      |     |        | X       |          |          |       |                |          |

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Relinquished By: \_\_\_\_\_ Date: 10-20-23  
 Received By: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: 10-30-23  
 Received By: \_\_\_\_\_

Delivered By: (Circle One) UPS Observed Temp. °C: 5.0°C  
 Sampler - UPS - Bus - Other: \_\_\_\_\_ Corrected Temp. °C: \_\_\_\_\_  
 Sample Condition:  Intact  Cool  Yes  No  
 CHECKED BY: (Initials) \_\_\_\_\_  
 Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Bacteria (only)  Intact  Cool  Yes  No  
 Sample Condition:  Intact  Observed Temp. °C: \_\_\_\_\_  
 Corrected Temp. °C: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 25, 2023

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU CONNECTOR PW BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 21 3' (H235814-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 10/25/2023 | ND              | 432 | 108        | 400           | 3.64 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/24/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/24/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/24/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 22 3' (H235814-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 10/25/2023 | ND              | 432 | 108        | 400           | 3.64 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/24/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/24/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/24/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 23 3' (H235814-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/24/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/24/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/24/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 24 3' (H235814-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/24/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/24/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/24/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 25 3' (H235814-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/24/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/24/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/24/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 26 3' (H235814-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/25/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/25/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/25/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 27 2' (H235814-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/25/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/25/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/25/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 28 2' (H235814-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/25/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/25/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/25/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 29 2' (H235814-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/25/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/25/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/25/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 10/24/2023               | Sampling Date:      | 10/23/2023     |
| Reported:         | 10/25/2023               | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045               | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159       |                     |                |

**Sample ID: FS 15A 3' (H235814-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 1.95 | 97.3       | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/24/2023 | ND               | 2.12 | 106        | 2.00          | 3.79 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2023 | ND               | 2.08 | 104        | 2.00          | 2.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2023 | ND               | 6.30 | 105        | 6.00          | 2.70 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/24/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 10/25/2023 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/25/2023 | ND              | 176 | 88.0       | 200           | 4.23 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/25/2023 | ND              | 192 | 96.0       | 200           | 3.98 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/25/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Ensolum, LLC

Project Manager: Ben Bellini

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 989-859-0852

Fax #:

Project #: 3CB596045

Project Owner: Madley Ranch/The

Project Name: BEUCONNECTOR PU BASKIN/MADELEY RANCH

Project Location: 30.207 - 103.56159

Sampler Name: Seach ~~the~~ well log

P.O. #:

Company: XTO Energy

Attn: Sarah Green

Address: 304E Forest

City: Mimbres

State: Texas Zip: 88220

Phone #:

Fax #:

**BILL TO**

**ANALYSIS REQUEST**

| Lab I.D. | Sample I.D. | Depth (feet) | MATRIX            |              |             |            |      |     |        | PRESERV. |            | DATE     | TIME  | ANALYSIS        |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|------------|----------|-------|-----------------|
|          |             |              | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER :  | ACID/BASE: |          |       |                 |
| H235814  | FS 21       | 3            |                   |              |             |            |      |     |        |          |            | 10/23/23 | 10:20 | Cl - (SAM 4500) |
|          | FS 22       | 3            |                   |              |             |            |      |     |        |          |            | 12:00    | 12:00 | TOH             |
|          | FS 23       | 3            |                   |              |             |            |      |     |        |          |            | 12:05    | 12:05 | BTEX            |
|          | FS 24       | 3            |                   |              |             |            |      |     |        |          |            | 12:10    | 12:15 |                 |
|          | FS 25       | 3            |                   |              |             |            |      |     |        |          |            | 12:15    | 13:00 |                 |
|          | FS 26       | 3            |                   |              |             |            |      |     |        |          |            | 13:00    | 13:05 |                 |
|          | FS 27       | 3            |                   |              |             |            |      |     |        |          |            | 13:05    | 13:10 |                 |
|          | FS 28       | 3            |                   |              |             |            |      |     |        |          |            | 13:10    | 13:15 |                 |
|          | FS 29       | 3            |                   |              |             |            |      |     |        |          |            | 13:15    | 13:20 |                 |
|          | FS 30       | 3            |                   |              |             |            |      |     |        |          |            | 13:20    | 13:25 |                 |
|          | FS 31       | 3            |                   |              |             |            |      |     |        |          |            | 13:25    | 13:30 |                 |

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Relinquished By: *[Signature]* Date: 10-24-23 Received By: *[Signature]* Date: 10-24-23  
 Relinquished By: *[Signature]* Time: 1:315 Received By: *[Signature]* Time: 1:315

Delivered By: (Circle One) Observed Temp. °C: 1.8 Sample Condition:  Intact  Cool  Yes  No  No  
 Corrected Temp. °C: Checked By: (Initials) *[Signature]*

Thermometer ID #1140 Standard  Bacteria (only) Sample Condition  Cool Intact  Observed Temp. °C  Corrected Temp. °C





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 27, 2023

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU CONNECTOR PW BOOSTER/MOBLEY RANCH PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 15:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                      | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                      | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE\ | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                      | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159              |                     |                |

**Sample ID: FS 37 2 (H235883-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>112</b> | 16.0            | 10/27/2023 | ND              | 384 | 96.0       | 400           | 11.8 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 38 2 (H235883-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |  |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 10/27/2023 | ND              | 384 | 96.0       | 400           | 11.8 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 39 2 (H235883-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |  |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 10/27/2023 | ND              | 384 | 96.0       | 400           | 11.8 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 40 2 (H235883-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |  |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/27/2023 | ND              | 384 | 96.0       | 400           | 11.8 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 35 3 (H235883-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/27/2023 | ND              | 448 | 112        | 400           | 7.41 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: FS 36 3 (H235883-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/27/2023 | ND              | 448 | 112        | 400           | 7.41 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                |                     |                |
|-------------------|--------------------------------|---------------------|----------------|
| Received:         | 10/26/2023                     | Sampling Date:      | 10/26/2023     |
| Reported:         | 10/27/2023                     | Sampling Type:      | Soil           |
| Project Name:     | BEU CONNECTOR PW BOOSTER/MOBLE | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C1558045                     | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.2907,-103.86159             |                     |                |

**Sample ID: SW 04 0-3' (H235883-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AW |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.04 | 102        | 2.00          | 1.64   |           |
| Toluene*       | <0.050 | 0.050           | 10/26/2023 | ND              | 2.10 | 105        | 2.00          | 1.81   |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/26/2023 | ND              | 2.11 | 105        | 2.00          | 1.17   |           |
| Total Xylenes* | <0.150 | 0.150           | 10/26/2023 | ND              | 6.30 | 105        | 6.00          | 0.0421 |           |
| Total BTEX     | <0.300 | 0.300           | 10/26/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/27/2023 | ND              | 448 | 112        | 400           | 7.41 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/27/2023 | ND              | 182 | 90.8       | 200           | 8.03  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/27/2023 | ND              | 199 | 99.5       | 200           | 0.376 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager







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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ben Belill  
Ensolum

601 N. Marienfeld St.  
Suite 400

Midland, Texas 79701

Generated 11/13/2023 1:18:20 PM

## JOB DESCRIPTION

Beu Connector Mobley Ranch Pipeline  
SDG NUMBER 32.2907,-105.86154

## JOB NUMBER

890-5564-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.



# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



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

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Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Laboratory Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| *1        | LCS/LCSD RPD exceeds control limits.                     |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

**Job ID: 890-5564-1**

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative  
890-5564-1**

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

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

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

**Receipt**

The samples were received on 11/3/2023 8:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SW11 (890-5564-1), SW12 (890-5564-2), FS45 (890-5564-3), FS46 (890-5564-4), FS47 (890-5564-5), FS48 (890-5564-6), FS49 (890-5564-7), SW13 (890-5564-8), SW14 (890-5564-9), SW15 (890-5564-10), SW16 (890-5564-11), FS50 (890-5564-12), SW17 (890-5564-13), FS51 (890-5564-14), SW18 (890-5564-15), FS52 (890-5564-16), FS53 (890-5564-17), SW19 (890-5564-18), SW20 (890-5564-19), FS54 (890-5564-20), FS55 (890-5564-21) and FS56 (890-5564-22).

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS45 (890-5564-3), FS46 (890-5564-4), FS47 (890-5564-5), FS48 (890-5564-6), FS49 (890-5564-7), SW13 (890-5564-8), SW14 (890-5564-9), SW15 (890-5564-10), FS53 (890-5564-17), SW20 (890-5564-19) and (890-5564-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66321 and analytical batch 880-66359 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-66358/1-A) and (MB 880-66358/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The method blank for preparation batch 880-66358 and analytical batch 880-66359 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-66321 and analytical batch 880-66359 was outside control limits. Sample non-homogeneity is suspected.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS55 (890-5564-21), FS56 (890-5564-22), (CCV 880-66703/33), (CCV 880-66703/82) and (890-5569-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-66435 and analytical batch 880-66703 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: (890-5569-A-21-D MS) and (890-5569-A-21-E

## Case Narrative

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

**Job ID: 890-5564-1 (Continued)****Laboratory: Eurofins Carlsbad (Continued)**

MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-66317 and analytical batch 880-66340 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66340/20) and (CCV 880-66340/5). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-66315 and analytical batch 880-66346 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SW11 (890-5564-1), SW12 (890-5564-2), FS45 (890-5564-3), FS46 (890-5564-4), FS47 (890-5564-5), FS48 (890-5564-6), FS49 (890-5564-7), SW13 (890-5564-8), SW14 (890-5564-9), SW15 (890-5564-10), SW16 (890-5564-11), FS50 (890-5564-12), SW17 (890-5564-13), FS51 (890-5564-14), (890-5563-A-19-A), (890-5563-A-19-B MS) and (890-5563-A-19-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66346/20), (CCV 880-66346/31), (CCV 880-66346/5), (CCV 880-66346/57) and (CCV 880-66346/58). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-66315 and analytical batch 880-66346 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-66356 and 880-66356 and analytical batch 880-66512 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-66357 and analytical batch 880-66513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-66337 and analytical batch 880-66518 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.

### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW11**

**Lab Sample ID: 890-5564-1**

Date Collected: 11/02/23 09:00

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U F2      | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:35 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 05:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 75        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 05:35 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/08/23 05:35 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/07/23 14:55 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 14:55 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U *1      | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 14:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 14:55 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 146       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 14:55 | 1       |
| o-Terphenyl    | 176       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 14:55 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 195    |           | 4.99 | mg/Kg |   |          | 11/08/23 08:53 | 1       |

**Client Sample ID: SW12**

**Lab Sample ID: 890-5564-2**

Date Collected: 11/02/23 09:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 06:01 | 1       |

Eurofins Carlsbad

### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW12**

**Lab Sample ID: 890-5564-2**

Date Collected: 11/02/23 09:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 71        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 06:01 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/08/23 06:01 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5  | U         | 50.5 | mg/Kg |   |          | 11/07/23 15:17 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5  | U         | 50.5 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5  | U *1      | 50.5 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5  | U         | 50.5 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 137       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 15:17 | 1       |
| o-Terphenyl    | 165       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 15:17 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 256    |           | 4.95 | mg/Kg |   |          | 11/08/23 09:09 | 1       |

**Client Sample ID: FS45**

**Lab Sample ID: 890-5564-3**

Date Collected: 11/02/23 09:10

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 138       | S1+       | 70 - 130 | 11/06/23 17:15 | 11/08/23 06:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 06:26 | 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 |   |          | 11/08/23 06:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5  | U         | 50.5 | mg/Kg |   |          | 11/07/23 15:38 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS45**

**Lab Sample ID: 890-5564-3**

Date Collected: 11/02/23 09:10

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5     | U         | 50.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U *1      | 50.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 15:38 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 130       |           | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 15:38 | 1       |
| o-Terphenyl                          | 155       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 15:38 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 180    |           | 4.98 | mg/Kg |   |          | 11/08/23 09:14 | 1       |

**Client Sample ID: FS46**

**Lab Sample ID: 890-5564-4**

Date Collected: 11/02/23 09:15

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 133       | S1+       | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 06:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 06:52 | 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 |   |          | 11/08/23 06:52 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 | mg/Kg |   |          | 11/07/23 16:00 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7     | U         | 49.7     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U *1      | 49.7     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 127       |           | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 16:00 | 1       |
| o-Terphenyl                          | 151       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 16:00 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS46**

**Lab Sample ID: 890-5564-4**

Date Collected: 11/02/23 09:15

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 235    |           | 5.04 | mg/Kg |   |          | 11/08/23 09:19 | 1       |

**Client Sample ID: FS47**

**Lab Sample ID: 890-5564-5**

Date Collected: 11/02/23 09:20

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 137       | S1+       | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 79        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 07:19 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/08/23 07:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 | mg/Kg |   |          | 11/07/23 16:45 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6     | U         | 49.6     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U *1      | 49.6     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:45 | 1       |
| Oll Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 16:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 129       |           | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 16:45 | 1       |
| o-Terphenyl                          | 153       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 16:45 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 256    |           | 5.03 | mg/Kg |   |          | 11/08/23 09:25 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS48**

**Lab Sample ID: 890-5564-6**

Date Collected: 11/02/23 10:00

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 07:46 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 | 11/06/23 17:15 | 11/08/23 07:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 07:46 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/08/23 07:46 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 11/07/23 17:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U *1      | 49.9 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:08 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 122       |           | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:08 | 1       |
| o-Terphenyl    | 147       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:08 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 251    |           | 4.98 | mg/Kg |   |          | 11/08/23 09:30 | 1       |

**Client Sample ID: FS49**

**Lab Sample ID: 890-5564-7**

Date Collected: 11/02/23 10:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 152       | S1+       | 70 - 130 | 11/06/23 17:15 | 11/08/23 08:12 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS49**

**Lab Sample ID: 890-5564-7**

Date Collected: 11/02/23 10:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 98        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 08:12 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 11/08/23 08:12 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/07/23 17:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:30 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U *1      | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:30 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 143       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:30 | 1       |
| o-Terphenyl    | 171       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:30 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 334    | F1        | 4.98 | mg/Kg |   |          | 11/08/23 09:35 | 1       |

**Client Sample ID: SW13**

**Lab Sample ID: 890-5564-8**

Date Collected: 11/02/23 10:10

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 08:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 150       | S1+       | 70 - 130 | 11/06/23 17:15 | 11/08/23 08:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 08:38 | 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 |   |          | 11/08/23 08:38 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4  | U         | 50.4 | mg/Kg |   |          | 11/07/23 17:53 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW13**

**Lab Sample ID: 890-5564-8**

Date Collected: 11/02/23 10:10

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4  | U         | 50.4 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4  | U *1      | 50.4 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4  | U         | 50.4 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 17:53 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 130       |           | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:53 | 1       |
| o-Terphenyl    | 157       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 17:53 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 173    |           | 5.04 | mg/Kg |   |          | 11/08/23 09:51 | 1       |

**Client Sample ID: SW14**

**Lab Sample ID: 890-5564-9**

Date Collected: 11/02/23 10:15

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 09:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 09:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 70        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 09:51 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 11/08/23 09:51 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 | mg/Kg |   |          | 11/07/23 18:14 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U         | 49.7 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U *1      | 49.7 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:14 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 11/06/23 16:30 | 11/07/23 18:14 | 1       |
| o-Terphenyl    | 151       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 18:14 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW14**

**Lab Sample ID: 890-5564-9**

Date Collected: 11/02/23 10:15

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 190    |           | 5.01 | mg/Kg |   |          | 11/08/23 09:56 | 1       |

**Client Sample ID: SW15**

**Lab Sample ID: 890-5564-10**

Date Collected: 11/02/23 10:20

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-3

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 143       | S1+       | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 119       |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 10:17 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/08/23 10:17 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.5  | U         | 49.5 | mg/Kg |   |          | 11/07/23 18:36 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5     | U         | 49.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:36 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.5     | U *1      | 49.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:36 | 1       |
| Oll Range Organics (Over C28-C36)    | <49.5     | U         | 49.5     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:36 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 142       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 18:36 | 1       |
| o-Terphenyl                          | 171       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 18:36 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 202    |           | 4.96 | mg/Kg |   |          | 11/08/23 10:12 | 1       |



### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW16**

**Lab Sample ID: 890-5564-11**

Date Collected: 11/02/23 10:25

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:02 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/08/23 12:02 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 11/07/23 18:57 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *1      | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 18:57 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 123       |           | 70 - 130 | 11/06/23 16:30 | 11/07/23 18:57 | 1       |
| o-Terphenyl    | 149       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 18:57 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 72.1   |           | 5.02 | mg/Kg |   |          | 11/08/23 10:17 | 1       |

**Client Sample ID: FS50**

**Lab Sample ID: 890-5564-12**

Date Collected: 11/02/23 11:00

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:28 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS50**

**Lab Sample ID: 890-5564-12**

Date Collected: 11/02/23 11:00

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 88        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:28 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 11/08/23 12:28 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 11/07/23 19:19 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:19 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *1      | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:19 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:19 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 148       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 19:19 | 1       |
| o-Terphenyl    | 183       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 19:19 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 157    |           | 5.01 | mg/Kg |   |          | 11/08/23 10:22 | 1       |

**Client Sample ID: SW17**

**Lab Sample ID: 890-5564-13**

Date Collected: 11/02/23 11:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 12:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 12:54 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 11/08/23 12:54 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 | mg/Kg |   |          | 11/07/23 19:40 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW17**

**Lab Sample ID: 890-5564-13**

Date Collected: 11/02/23 11:05

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-3

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1     | U         | 50.1     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U *1      | 50.1     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 19:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 140       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 19:40 | 1       |
| o-Terphenyl                          | 170       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 19:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 284    |           | 5.04 | mg/Kg |   |          | 11/08/23 10:27 | 1       |

**Client Sample ID: FS51**

**Lab Sample ID: 890-5564-14**

Date Collected: 11/02/23 11:10

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 70        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 13:21 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/08/23 13:21 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4  | U         | 50.4 | mg/Kg |   |          | 11/07/23 20:02 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 20:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U *1      | 50.4     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 20:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 11/06/23 16:30 | 11/07/23 20:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 143       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 20:02 | 1       |
| o-Terphenyl                          | 173       | S1+       | 70 - 130 |       |   | 11/06/23 16:30 | 11/07/23 20:02 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS51**

**Lab Sample ID: 890-5564-14**

Date Collected: 11/02/23 11:10  
 Date Received: 11/03/23 08:21  
 Sample Depth: 3

Matrix: Solid

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 215    |           | 5.02 | mg/Kg |   |          | 11/08/23 10:32 | 1       |

**Client Sample ID: SW18**

**Lab Sample ID: 890-5564-15**

Date Collected: 11/02/23 11:15  
 Date Received: 11/03/23 08:21  
 Sample Depth: 0-2

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 13:47 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/08/23 13:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 11/07/23 12:51 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 12:51 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 12:51 | 1       |
| Oll Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 12:51 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 12:51 | 1       |
| o-Terphenyl                          | 94        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 12:51 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 224    |           | 5.04 | mg/Kg |   |          | 11/08/23 10:38 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS52**

**Lab Sample ID: 890-5564-16**

Date Collected: 11/02/23 11:20

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 14:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 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 |   |          | 11/08/23 14:13 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 | mg/Kg |   |          | 11/07/23 13:15 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:15 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 13:15 | 1       |
| o-Terphenyl    | 96        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 13:15 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 247    |           | 4.97 | mg/Kg |   |          | 11/08/23 12:46 | 1       |

**Client Sample ID: FS53**

**Lab Sample ID: 890-5564-17**

Date Collected: 11/02/23 11:25

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 14:39 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 135       | S1+       | 70 - 130 | 11/06/23 17:15 | 11/08/23 14:39 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS53**

**Lab Sample ID: 890-5564-17**

Date Collected: 11/02/23 11:25

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 120       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 14:39 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 11/08/23 14:39 | 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 |   |          | 11/07/23 13:38 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 13:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 96        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 13:38 | 1       |
| o-Terphenyl    | 97        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 13:38 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 255    | F1        | 4.98 | mg/Kg |   |          | 11/08/23 08:43 | 1       |

**Client Sample ID: SW19**

**Lab Sample ID: 890-5564-18**

Date Collected: 11/02/23 12:30

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 130       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 15:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 15:05 | 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 |   |          | 11/08/23 15:05 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 | mg/Kg |   |          | 11/07/23 11:43 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW19**

**Lab Sample ID: 890-5564-18**

Date Collected: 11/02/23 12:30

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1     | U         | 50.1     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 11:43 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 11:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 11:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 11:43 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 11:43 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 118    |           | 4.99 | mg/Kg |   |          | 11/08/23 09:00 | 1       |

**Client Sample ID: SW20**

**Lab Sample ID: 890-5564-19**

Date Collected: 11/02/23 12:35

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 132       | S1+       | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |       |   | 11/06/23 17:15 | 11/08/23 15:31 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/08/23 15:31 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 | mg/Kg |   |          | 11/07/23 14:03 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7     | U         | 49.7     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:03 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U         | 49.7     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:03 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:03 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 73        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 14:03 | 1       |
| o-Terphenyl                          | 76        |           | 70 - 130 |       |   | 11/06/23 16:35 | 11/07/23 14:03 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW20**

**Lab Sample ID: 890-5564-19**

Date Collected: 11/02/23 12:35

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 0-2

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 284    |           | 5.04 | mg/Kg |   |          | 11/08/23 09:05 | 1       |

**Client Sample ID: FS54**

**Lab Sample ID: 890-5564-20**

Date Collected: 11/02/23 12:40

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 15:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 120       |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 15:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 | 11/06/23 17:15 | 11/08/23 15:57 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/08/23 15:57 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 11/07/23 14:27 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:27 | 1       |
| Oll Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:27 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 14:27 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 14:27 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 273    |           | 5.00 | mg/Kg |   |          | 11/08/23 09:11 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS55**

**Lab Sample ID: 890-5564-21**

Date Collected: 11/02/23 12:45

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/08/23 12:08 | 11/12/23 03:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 | 11/08/23 12:08 | 11/12/23 03:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 11/08/23 12:08 | 11/12/23 03:56 | 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 |   |          | 11/12/23 03:56 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/07/23 14:52 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:52 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 14:52 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 14:52 | 1       |
| o-Terphenyl    | 92        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 14:52 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 310    |           | 5.05 | mg/Kg |   |          | 11/07/23 16:40 | 1       |

**Client Sample ID: FS56**

**Lab Sample ID: 890-5564-22**

Date Collected: 11/02/23 12:50

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/08/23 12:00 | 11/12/23 04:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 147       | S1+       | 70 - 130 | 11/08/23 12:00 | 11/12/23 04:23 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS56**

**Lab Sample ID: 890-5564-22**

Date Collected: 11/02/23 12:50

Matrix: Solid

Date Received: 11/03/23 08:21

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 10        | S1-       | 70 - 130 | 11/08/23 12:00 | 11/12/23 04:23 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/12/23 04:23 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/07/23 15:17 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 15:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 15:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 15:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 15:17 | 1       |
| o-Terphenyl    | 98        |           | 70 - 130 | 11/06/23 16:35 | 11/07/23 15:17 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 399    | F1        | 4.97 | mg/Kg |   |          | 11/08/23 15:19 | 1       |

### Surrogate Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-34990-A-2-B MB  | Method Blank           | 123  | 99                |
| 890-5564-1          | SW11                   | 104  | 75                |
| 890-5564-1 MS       | SW11                   | 121  | 126               |
| 890-5564-1 MSD      | SW11                   | 81   | 67 S1-            |
| 890-5564-2          | SW12                   | 109  | 71                |
| 890-5564-3          | FS45                   | 138 S1+  | 94                |
| 890-5564-4          | FS46                   | 133 S1+  | 93                |
| 890-5564-5          | FS47                   | 137 S1+  | 79                |
| 890-5564-6          | FS48                   | 139 S1+  | 98                |
| 890-5564-7          | FS49                   | 152 S1+  | 98                |
| 890-5564-8          | SW13                   | 150 S1+  | 102               |
| 890-5564-9          | SW14                   | 93   | 70                |
| 890-5564-10         | SW15                   | 143 S1+  | 119               |
| 890-5564-11         | SW16                   | 111  | 90                |
| 890-5564-12         | FS50                   | 114  | 88                |
| 890-5564-13         | SW17                   | 97   | 95                |
| 890-5564-14         | FS51                   | 109  | 70                |
| 890-5564-15         | SW18                   | 96   | 89                |
| 890-5564-16         | FS52                   | 86   | 90                |
| 890-5564-17         | FS53                   | 135 S1+  | 120               |
| 890-5564-18         | SW19                   | 130  | 77                |
| 890-5564-19         | SW20                   | 132 S1+  | 84                |
| 890-5564-20         | FS54                   | 120  | 88                |
| 890-5564-21         | FS55                   | 139 S1+  | 97                |
| 890-5564-22         | FS56                   | 147 S1+  | 10 S1-            |
| 890-5569-A-21-D MS  | Matrix Spike           | 132 S1+  | 68 S1-            |
| 890-5569-A-21-E MSD | Matrix Spike Duplicate | 153 S1+  | 89                |
| LCS 880-66321/1-A   | Lab Control Sample     | 95   | 80                |
| LCS 880-66435/1-A   | Lab Control Sample     | 113  | 83                |
| LCS 880-66321/2-A   | Lab Control Sample Dup | 122  | 99                |
| LCS 880-66435/2-A   | Lab Control Sample Dup | 124  | 75                |
| MB 880-66321/5-A    | Method Blank           | 69 S1-   | 88                |
| MB 880-66434/5-A    | Method Blank           | 81   | 79                |
| MB 880-66435/5-A    | Method Blank           | 76   | 71                |

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-5563-A-19-B MS  | Matrix Spike           | 132 S1+  | 131 S1+           |
| 890-5563-A-19-C MSD | Matrix Spike Duplicate | 130  | 132 S1+           |
| 890-5564-1          | SW11                   | 146 S1+  | 176 S1+           |
| 890-5564-2          | SW12                   | 137 S1+  | 165 S1+           |
| 890-5564-3          | FS45                   | 130  | 155 S1+           |

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### Surrogate Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Matrix: Solid**

**Prep Type: Total/NA**

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|--|-------------------|
|                    |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-5564-4         | FS46                   | 127  | 151 S1+           |
| 890-5564-5         | FS47                   | 129  | 153 S1+           |
| 890-5564-6         | FS48                   | 122  | 147 S1+           |
| 890-5564-7         | FS49                   | 143 S1+  | 171 S1+           |
| 890-5564-8         | SW13                   | 130  | 157 S1+           |
| 890-5564-9         | SW14                   | 126  | 151 S1+           |
| 890-5564-10        | SW15                   | 142 S1+  | 171 S1+           |
| 890-5564-11        | SW16                   | 123  | 149 S1+           |
| 890-5564-12        | FS50                   | 148 S1+  | 183 S1+           |
| 890-5564-13        | SW17                   | 140 S1+  | 170 S1+           |
| 890-5564-14        | FS51                   | 143 S1+  | 173 S1+           |
| 890-5564-15        | SW18                   | 93   | 94                |
| 890-5564-16        | FS52                   | 95   | 96                |
| 890-5564-17        | FS53                   | 96   | 97                |
| 890-5564-18        | SW19                   | 97   | 98                |
| 890-5564-18 MS     | SW19                   | 95   | 86                |
| 890-5564-18 MSD    | SW19                   | 96   | 89                |
| 890-5564-19        | SW20                   | 73   | 76                |
| 890-5564-20        | FS54                   | 101  | 103               |
| 890-5564-21        | FS55                   | 90   | 92                |
| 890-5564-22        | FS56                   | 95   | 98                |
| LCS 880-66315/2-A  | Lab Control Sample     | 86   | 105               |
| LCS 880-66317/2-A  | Lab Control Sample     | 103  | 115               |
| LCSD 880-66315/3-A | Lab Control Sample Dup | 98   | 118               |
| LCSD 880-66317/3-A | Lab Control Sample Dup | 98   | 101               |
| MB 880-66315/1-A   | Method Blank           | 243 S1+  | 301 S1+           |
| MB 880-66317/1-A   | Method Blank           | 162 S1+  | 169 S1+           |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

Lab Sample ID: MB 880-66321/5-A  
 Matrix: Solid  
 Analysis Batch: 66359

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 66321

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 11/06/23 17:15 | 11/08/23 05:10 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 69           | S1-          | 70 - 130 | 11/06/23 17:15 | 11/08/23 05:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88           |              | 70 - 130 | 11/06/23 17:15 | 11/08/23 05:10 | 1       |

Lab Sample ID: LCS 880-66321/1-A  
 Matrix: Solid  
 Analysis Batch: 66359

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 66321

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.08935    |               | mg/Kg |   | 89   | 70 - 130    |
| Toluene             | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1027     |               | mg/Kg |   | 103  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2045     |               | mg/Kg |   | 102  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1079     |               | mg/Kg |   | 108  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 80            |               | 70 - 130 |

Lab Sample ID: LCSD 880-66321/2-A  
 Matrix: Solid  
 Analysis Batch: 66359

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 66321

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.09122     |                | mg/Kg |   | 91   | 70 - 130    | 2   | 35    |
| Toluene             | 0.100       | 0.1055      |                | mg/Kg |   | 106  | 70 - 130    | 4   | 35    |
| Ethylbenzene        | 0.100       | 0.1051      |                | mg/Kg |   | 105  | 70 - 130    | 2   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2022      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35    |
| o-Xylene            | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130    | 0   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 122            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: 890-5564-1 MS  
 Matrix: Solid  
 Analysis Batch: 66359

Client Sample ID: SW11  
 Prep Type: Total/NA  
 Prep Batch: 66321

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200      | U F2             | 0.100       | 0.1173    |              | mg/Kg |   | 117  | 70 - 130    |
| Toluene | <0.00200      | U                | 0.100       | 0.1106    |              | mg/Kg |   | 110  | 70 - 130    |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Lab Sample ID: 890-5564-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 66359**

**Client Sample ID: SW11**  
**Prep Type: Total/NA**  
**Prep Batch: 66321**

| Analyte             | Sample   | Sample    | Spike | MS     | MS        | Unit  | D | %Rec | %Rec     |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|
|                     | Result   | Qualifier |       | Result | Qualifier |       |   |      |          |
| Ethylbenzene        | <0.00200 | U         | 0.100 | 0.1068 |           | mg/Kg |   | 107  | 70 - 130 |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.200 | 0.2065 |           | mg/Kg |   | 103  | 70 - 130 |
| o-Xylene            | <0.00200 | U         | 0.100 | 0.1062 |           | mg/Kg |   | 106  | 70 - 130 |

| Surrogate                   | MS        | MS        | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 121       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 126       |           | 70 - 130 |

**Lab Sample ID: 890-5564-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 66359**

**Client Sample ID: SW11**  
**Prep Type: Total/NA**  
**Prep Batch: 66321**

| Analyte             | Sample   | Sample    | Spike  | MSD     | MSD       | Unit  | D | %Rec | %Rec     | RPD | Limit |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
|                     | Result   | Qualifier |        | Result  | Qualifier |       |   |      |          |     |       |
| Benzene             | <0.00200 | U F2      | 0.0996 | 0.07697 | F2        | mg/Kg |   | 77   | 70 - 130 | 41  | 35    |
| Toluene             | <0.00200 | U         | 0.0996 | 0.07765 |           | mg/Kg |   | 78   | 70 - 130 | 35  | 35    |
| Ethylbenzene        | <0.00200 | U         | 0.0996 | 0.09176 |           | mg/Kg |   | 92   | 70 - 130 | 15  | 35    |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.199  | 0.1741  |           | mg/Kg |   | 87   | 70 - 130 | 17  | 35    |
| o-Xylene            | <0.00200 | U         | 0.0996 | 0.08459 |           | mg/Kg |   | 85   | 70 - 130 | 23  | 35    |

| Surrogate                   | MSD       | MSD       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 67        | S1-       | 70 - 130 |

**Lab Sample ID: 880-34990-A-2-B MB**  
**Matrix: Solid**  
**Analysis Batch: 66359**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 66358**

| Analyte             | MB       | MB        | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
|                     | Result   | Qualifier |         |       |   |                |                |         |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 11/07/23 11:44 | 11/08/23 00:56 | 1       |

| Surrogate                   | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 4-Bromofluorobenzene (Surr) | 123       |           | 70 - 130 | 11/07/23 11:44 | 11/08/23 00:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 11/07/23 11:44 | 11/08/23 00:56 | 1       |

**Lab Sample ID: MB 880-66434/5-A**  
**Matrix: Solid**  
**Analysis Batch: 66703**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 66434**

| Analyte             | MB       | MB        | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
|                     | Result   | Qualifier |         |       |   |                |                |         |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Lab Sample ID: MB 880-66434/5-A**  
**Matrix: Solid**  
**Analysis Batch: 66703**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 66434**

| Analyte                     | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier |          |       |   |                |                |         |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 |       |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 79        |           | 70 - 130 |       |   | 11/07/23 15:54 | 11/11/23 04:38 | 1       |

**Lab Sample ID: MB 880-66435/5-A**  
**Matrix: Solid**  
**Analysis Batch: 66703**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 66435**

| Analyte                     | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier |          |       |   |                |                |         |
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 76        |           | 70 - 130 |       |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 71        |           | 70 - 130 |       |   | 11/07/23 15:55 | 11/11/23 18:17 | 1       |

**Lab Sample ID: LCS 880-66435/1-A**  
**Matrix: Solid**  
**Analysis Batch: 66703**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 66435**

| Analyte                     | Spike Added | LCS    | LCS       | Unit  | D | %Rec | %Rec Limits |
|-----------------------------|-------------|--------|-----------|-------|---|------|-------------|
|                             |             | Result | Qualifier |       |   |      |             |
| Benzene                     | 0.100       | 0.1094 |           | mg/Kg |   | 109  | 70 - 130    |
| Toluene                     | 0.100       | 0.1112 |           | mg/Kg |   | 111  | 70 - 130    |
| Ethylbenzene                | 0.100       | 0.1031 |           | mg/Kg |   | 103  | 70 - 130    |
| m-Xylene & p-Xylene         | 0.200       | 0.2001 |           | mg/Kg |   | 100  | 70 - 130    |
| o-Xylene                    | 0.100       | 0.1053 |           | mg/Kg |   | 105  | 70 - 130    |
| Surrogate                   | LCS LCS     |        | Limits    |       |   |      |             |
| %Recovery                   | Qualifier   |        |           |       |   |      |             |
| 4-Bromofluorobenzene (Surr) | 113         |        | 70 - 130  |       |   |      |             |
| 1,4-Difluorobenzene (Surr)  | 83          |        | 70 - 130  |       |   |      |             |

**Lab Sample ID: LCSD 880-66435/2-A**  
**Matrix: Solid**  
**Analysis Batch: 66703**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 66435**

| Analyte             | Spike Added | LCSD   | LCSD      | Unit  | D | %Rec | %Rec Limits | RPD |       |
|---------------------|-------------|--------|-----------|-------|---|------|-------------|-----|-------|
|                     |             | Result | Qualifier |       |   |      |             | RPD | Limit |
| Benzene             | 0.100       | 0.1110 |           | mg/Kg |   | 111  | 70 - 130    | 1   | 35    |
| Toluene             | 0.100       | 0.1078 |           | mg/Kg |   | 108  | 70 - 130    | 3   | 35    |
| Ethylbenzene        | 0.100       | 0.1151 |           | mg/Kg |   | 115  | 70 - 130    | 11  | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2296 |           | mg/Kg |   | 115  | 70 - 130    | 14  | 35    |
| o-Xylene            | 0.100       | 0.1224 |           | mg/Kg |   | 122  | 70 - 130    | 15  | 35    |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 124       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 75        |           | 70 - 130 |

Lab Sample ID: 890-5569-A-21-D MS  
 Matrix: Solid  
 Analysis Batch: 66703

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 66435

| Analyte             | Sample   | Sample    | Spike | MS      | MS        | Unit  | D | %Rec | %Rec | Limits   |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|------|----------|
|                     | Result   | Qualifier | Added | Result  | Qualifier |       |   |      |      |          |
| Benzene             | <0.00201 | U         | 0.101 | 0.08876 |           | mg/Kg |   | 88   |      | 70 - 130 |
| Toluene             | <0.00201 | U F2 F1   | 0.101 | 0.07431 |           | mg/Kg |   | 74   |      | 70 - 130 |
| Ethylbenzene        | <0.00201 | U F2 F1   | 0.101 | 0.07440 |           | mg/Kg |   | 74   |      | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U F2 F1   | 0.202 | 0.1432  |           | mg/Kg |   | 71   |      | 70 - 130 |
| o-Xylene            | <0.00201 | U F2 F1   | 0.101 | 0.09014 |           | mg/Kg |   | 89   |      | 70 - 130 |

| Surrogate                   | MS        |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 132       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 68        | S1-       | 70 - 130 |

Lab Sample ID: 890-5569-A-21-E MSD  
 Matrix: Solid  
 Analysis Batch: 66703

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 66435

| Analyte             | Sample   | Sample    | Spike  | MSD     | MSD       | Unit  | D | %Rec | %Rec | Limits   | RPD | RPD   |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|------|----------|-----|-------|
|                     | Result   | Qualifier | Added  | Result  | Qualifier |       |   |      |      |          | RPD | Limit |
| Benzene             | <0.00201 | U         | 0.0996 | 0.07067 |           | mg/Kg |   | 71   |      | 70 - 130 | 23  | 35    |
| Toluene             | <0.00201 | U F2 F1   | 0.0996 | 0.02247 | F2 F1     | mg/Kg |   | 23   |      | 70 - 130 | 107 | 35    |
| Ethylbenzene        | <0.00201 | U F2 F1   | 0.0996 | 0.02605 | F2 F1     | mg/Kg |   | 26   |      | 70 - 130 | 96  | 35    |
| m-Xylene & p-Xylene | <0.00402 | U F2 F1   | 0.199  | 0.05428 | F2 F1     | mg/Kg |   | 27   |      | 70 - 130 | 90  | 35    |
| o-Xylene            | <0.00201 | U F2 F1   | 0.0996 | 0.06237 | F2 F1     | mg/Kg |   | 63   |      | 70 - 130 | 36  | 35    |

| Surrogate                   | MSD       |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 153       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 |

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

Lab Sample ID: MB 880-66315/1-A  
 Matrix: Solid  
 Analysis Batch: 66346

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 66315

| Analyte                              | MB     | MB        | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 09:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 09:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:30 | 11/07/23 09:02 | 1       |

| Surrogate      | MB        |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 243       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 09:02 | 1       |
| o-Terphenyl    | 301       | S1+       | 70 - 130 | 11/06/23 16:30 | 11/07/23 09:02 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Lab Sample ID: LCS 880-66315/2-A**  
**Matrix: Solid**  
**Analysis Batch: 66346**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 66315**

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |       |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|-------|
|                                      |             |            |               |       |   |      | Lower       | Upper |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 841.4      |               | mg/Kg |   | 84   | 70          | 130   |
| Diesel Range Organics (Over C10-C28) | 1000        | 837.2      |               | mg/Kg |   | 84   | 70          | 130   |
|                                      |             | <b>LCS</b> | <b>LCS</b>    |       |   |      |             |       |
| Surrogate                            | %Recovery   | Qualifier  | Limits        |       |   |      |             |       |
| 1-Chlorooctane                       | 86          |            | 70 - 130      |       |   |      |             |       |
| o-Terphenyl                          | 105         |            | 70 - 130      |       |   |      |             |       |

**Lab Sample ID: LCSD 880-66315/3-A**  
**Matrix: Solid**  
**Analysis Batch: 66346**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 66315**

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits |       | RPD | Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-------|-----|-------|
|                                      |             |             |                |       |   |      | Lower       | Upper | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1028        |                | mg/Kg |   | 103  | 70          | 130   | 20  | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1036        | *1             | mg/Kg |   | 104  | 70          | 130   | 21  | 20    |
|                                      |             | <b>LCSD</b> | <b>LCSD</b>    |       |   |      |             |       |     |       |
| Surrogate                            | %Recovery   | Qualifier   | Limits         |       |   |      |             |       |     |       |
| 1-Chlorooctane                       | 98          |             | 70 - 130       |       |   |      |             |       |     |       |
| o-Terphenyl                          | 118         |             | 70 - 130       |       |   |      |             |       |     |       |

**Lab Sample ID: 890-5563-A-19-B MS**  
**Matrix: Solid**  
**Analysis Batch: 66346**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 66315**

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |       |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-------|
|                                      |               |                  |             |           |              |       |   |      | Lower       | Upper |
| Gasoline Range Organics (GRO)-C6-C10 | <50.5         | U                | 1010        | 937.0     |              | mg/Kg |   | 93   | 70          | 130   |
| Diesel Range Organics (Over C10-C28) | 56.3          | *1               | 1010        | 1092      |              | mg/Kg |   | 103  | 70          | 130   |
|                                      |               | <b>MS</b>        | <b>MS</b>   |           |              |       |   |      |             |       |
| Surrogate                            | %Recovery     | Qualifier        | Limits      |           |              |       |   |      |             |       |
| 1-Chlorooctane                       | 132           | S1+              | 70 - 130    |           |              |       |   |      |             |       |
| o-Terphenyl                          | 131           | S1+              | 70 - 130    |           |              |       |   |      |             |       |

**Lab Sample ID: 890-5563-A-19-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 66346**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 66315**

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits |       | RPD | Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-------|-----|-------|
|                                      |               |                  |             |            |               |       |   |      | Lower       | Upper | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.5         | U                | 1010        | 899.8      |               | mg/Kg |   | 89   | 70          | 130   | 4   | 20    |
| Diesel Range Organics (Over C10-C28) | 56.3          | *1               | 1010        | 1102       |               | mg/Kg |   | 103  | 70          | 130   | 1   | 20    |
|                                      |               | <b>MSD</b>       | <b>MSD</b>  |            |               |       |   |      |             |       |     |       |
| Surrogate                            | %Recovery     | Qualifier        | Limits      |            |               |       |   |      |             |       |     |       |
| 1-Chlorooctane                       | 130           |                  | 70 - 130    |            |               |       |   |      |             |       |     |       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Lab Sample ID: 890-5563-A-19-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 66346**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 66315**

| Surrogate           | MSD MSD   |           | Limits   |
|---------------------|-----------|-----------|----------|
|                     | %Recovery | Qualifier |          |
| <i>o</i> -Terphenyl | 132       | S1+       | 70 - 130 |

**Lab Sample ID: MB 880-66317/1-A**  
**Matrix: Solid**  
**Analysis Batch: 66340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 66317**

| Analyte                              | MB MB  |           | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 08:58 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 08:58 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 11/06/23 16:35 | 11/07/23 08:58 | 1       |

| Surrogate              | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                        | %Recovery | Qualifier |          |                |                |         |
| <i>1</i> -Chlorooctane | 162       | S1+       | 70 - 130 | 11/06/23 16:35 | 11/07/23 08:58 | 1       |
| <i>o</i> -Terphenyl    | 169       | S1+       | 70 - 130 | 11/06/23 16:35 | 11/07/23 08:58 | 1       |

**Lab Sample ID: LCS 880-66317/2-A**  
**Matrix: Solid**  
**Analysis Batch: 66340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 66317**

| Analyte                              | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|---------|-----------|-------|---|------|-------------|
|                                      |             | Result  | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 924.3   |           | mg/Kg |   | 92   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1057    |           | mg/Kg |   | 106  | 70 - 130    |

| Surrogate              | LCS LCS   |           | Limits   |
|------------------------|-----------|-----------|----------|
|                        | %Recovery | Qualifier |          |
| <i>1</i> -Chlorooctane | 103       |           | 70 - 130 |
| <i>o</i> -Terphenyl    | 115       |           | 70 - 130 |

**Lab Sample ID: LCSD 880-66317/3-A**  
**Matrix: Solid**  
**Analysis Batch: 66340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 66317**

| Analyte                              | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec Limits | RPD |       |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|-----|-------|
|                                      |             | Result    | Qualifier |       |   |      |             | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 932.7     |           | mg/Kg |   | 93   | 70 - 130    | 1   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1011      |           | mg/Kg |   | 101  | 70 - 130    | 4   | 20    |

| Surrogate              | LCSD LCSD |           | Limits   |
|------------------------|-----------|-----------|----------|
|                        | %Recovery | Qualifier |          |
| <i>1</i> -Chlorooctane | 98        |           | 70 - 130 |
| <i>o</i> -Terphenyl    | 101       |           | 70 - 130 |



### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

Lab Sample ID: 890-5564-18 MS  
 Matrix: Solid  
 Analysis Batch: 66340

Client Sample ID: SW19  
 Prep Type: Total/NA  
 Prep Batch: 66317

| Analyte                              | Sample           | Sample           | Spike         | MS     | MS        | Unit  | D | %Rec | %Rec | Limits   |
|--------------------------------------|------------------|------------------|---------------|--------|-----------|-------|---|------|------|----------|
|                                      | Result           | Qualifier        | Added         | Result | Qualifier |       |   |      |      |          |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1            | U                | 1010          | 737.2  |           | mg/Kg |   | 71   |      | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.1            | U                | 1010          | 759.3  |           | mg/Kg |   | 74   |      | 70 - 130 |
|                                      | <i>MS MS</i>     |                  |               |        |           |       |   |      |      |          |
| <i>Surrogate</i>                     | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |        |           |       |   |      |      |          |
| 1-Chlorooctane                       | 95               |                  | 70 - 130      |        |           |       |   |      |      |          |
| o-Terphenyl                          | 86               |                  | 70 - 130      |        |           |       |   |      |      |          |

Lab Sample ID: 890-5564-18 MSD  
 Matrix: Solid  
 Analysis Batch: 66340

Client Sample ID: SW19  
 Prep Type: Total/NA  
 Prep Batch: 66317

| Analyte                              | Sample           | Sample           | Spike         | MSD    | MSD       | Unit  | D | %Rec | %Rec | Limits   | RPD | RPD | Limit |
|--------------------------------------|------------------|------------------|---------------|--------|-----------|-------|---|------|------|----------|-----|-----|-------|
|                                      | Result           | Qualifier        | Added         | Result | Qualifier |       |   |      |      |          |     |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1            | U                | 1010          | 744.9  |           | mg/Kg |   | 71   |      | 70 - 130 | 1   |     | 20    |
| Diesel Range Organics (Over C10-C28) | <50.1            | U                | 1010          | 798.0  |           | mg/Kg |   | 77   |      | 70 - 130 | 5   |     | 20    |
|                                      | <i>MSD MSD</i>   |                  |               |        |           |       |   |      |      |          |     |     |       |
| <i>Surrogate</i>                     | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |        |           |       |   |      |      |          |     |     |       |
| 1-Chlorooctane                       | 96               |                  | 70 - 130      |        |           |       |   |      |      |          |     |     |       |
| o-Terphenyl                          | 89               |                  | 70 - 130      |        |           |       |   |      |      |          |     |     |       |

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

Lab Sample ID: MB 880-66334/1-A  
 Matrix: Solid  
 Analysis Batch: 66438

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB     | MB        | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
|          | Result | Qualifier |      |       |   |          |                |         |
| Chloride | <5.00  | U         | 5.00 | mg/Kg |   |          | 11/07/23 15:47 | 1       |

Lab Sample ID: LCS 880-66334/2-A  
 Matrix: Solid  
 Analysis Batch: 66438

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike | LCS   | LCS | Unit  | D | %Rec | %Rec | Limits   |
|----------|-------|-------|-----|-------|---|------|------|----------|
|          |       |       |     |       |   |      |      |          |
| Chloride | 250   | 244.8 |     | mg/Kg |   | 98   |      | 90 - 110 |

Lab Sample ID: LCSD 880-66334/3-A  
 Matrix: Solid  
 Analysis Batch: 66438

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

| Analyte  | Spike | LCSD  | LCSD | Unit  | D | %Rec | %Rec | Limits   | RPD | Limit |
|----------|-------|-------|------|-------|---|------|------|----------|-----|-------|
|          |       |       |      |       |   |      |      |          |     |       |
| Chloride | 250   | 246.3 |      | mg/Kg |   | 99   |      | 90 - 110 | 1   | 20    |

### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

Lab Sample ID: 880-35311-A-6-C MS  
 Matrix: Solid  
 Analysis Batch: 66438

Client Sample ID: Matrix Spike  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 4090          |                  | 2500        | 6463      |              | mg/Kg |   | 95   | 90 - 110    |

Lab Sample ID: 880-35311-A-6-D MSD  
 Matrix: Solid  
 Analysis Batch: 66438

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 4090          |                  | 2500        | 6476       |               | mg/Kg |   | 96   | 90 - 110    | 0   | 20        |

Lab Sample ID: MB 880-66356/1-A  
 Matrix: Solid  
 Analysis Batch: 66512

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 11/08/23 08:06 | 1       |

Lab Sample ID: LCS 880-66356/2-A  
 Matrix: Solid  
 Analysis Batch: 66512

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 259.5      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-66356/3-A  
 Matrix: Solid  
 Analysis Batch: 66512

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

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 260.4       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5564-7 MS  
 Matrix: Solid  
 Analysis Batch: 66512

Client Sample ID: FS49  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 334           | F1               | 249         | 511.2     | F1           | mg/Kg |   | 71   | 90 - 110    |

Lab Sample ID: 890-5564-7 MSD  
 Matrix: Solid  
 Analysis Batch: 66512

Client Sample ID: FS49  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 334           | F1               | 249         | 505.5      | F1            | mg/Kg |   | 69   | 90 - 110    | 1   | 20        |

Lab Sample ID: MB 880-66357/1-A  
 Matrix: Solid  
 Analysis Batch: 66513

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 11/08/23 08:10 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

Lab Sample ID: LCS 880-66357/2-A  
 Matrix: Solid  
 Analysis Batch: 66513

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 250.8      |               | mg/Kg |   | 100  | 90 - 110    |

Lab Sample ID: LCSD 880-66357/3-A  
 Matrix: Solid  
 Analysis Batch: 66513

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

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 250.5       |                | mg/Kg |   | 100  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5564-17 MS  
 Matrix: Solid  
 Analysis Batch: 66513

Client Sample ID: FS53  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 255           | F1               | 249         | 545.7     | F1           | mg/Kg |   | 117  | 90 - 110    |

Lab Sample ID: 890-5564-17 MSD  
 Matrix: Solid  
 Analysis Batch: 66513

Client Sample ID: FS53  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 255           | F1               | 249         | 540.3      | F1            | mg/Kg |   | 115  | 90 - 110    | 1   | 20        |

Lab Sample ID: MB 880-66337/1-A  
 Matrix: Solid  
 Analysis Batch: 66518

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 11/08/23 15:02 | 1       |

Lab Sample ID: LCS 880-66337/2-A  
 Matrix: Solid  
 Analysis Batch: 66518

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 257.8      |               | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: LCSD 880-66337/3-A  
 Matrix: Solid  
 Analysis Batch: 66518

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

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 258.1       |                | mg/Kg |   | 103  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5564-22 MS  
 Matrix: Solid  
 Analysis Batch: 66518

Client Sample ID: FS56  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 399           | F1               | 249         | 596.4     | F1           | mg/Kg |   | 79   | 90 - 110    |

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### QC Sample Results

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

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

Lab Sample ID: 890-5564-22 MSD  
Matrix: Solid  
Analysis Batch: 66518

Client Sample ID: FS56  
Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 399           | F1               | 249         | 592.2      | F1            | mg/Kg |   | 78   | 90 - 110    | 1   | 20        |

- 1
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### QC Association Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

#### GC VOA

##### Prep Batch: 66321

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-1         | SW11                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-2         | SW12                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-3         | FS45                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-4         | FS46                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-5         | FS47                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-6         | FS48                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-7         | FS49                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-8         | SW13                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-9         | SW14                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-10        | SW15                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-11        | SW16                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-12        | FS50                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-13        | SW17                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-14        | FS51                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-15        | SW18                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-16        | FS52                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-17        | FS53                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-18        | SW19                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-19        | SW20                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-20        | FS54                   | Total/NA  | Solid  | 5035   |            |
| MB 880-66321/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-66321/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-66321/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5564-1 MS      | SW11                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-1 MSD     | SW11                   | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 66358

| Lab Sample ID      | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------|-----------|--------|--------|------------|
| 880-34990-A-2-B MB | Method Blank     | Total/NA  | Solid  | 5030B  |            |

##### Analysis Batch: 66359

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-5564-1    | SW11             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-2    | SW12             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-3    | FS45             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-4    | FS46             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-5    | FS47             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-6    | FS48             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-7    | FS49             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-8    | SW13             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-9    | SW14             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-10   | SW15             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-11   | SW16             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-12   | FS50             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-13   | SW17             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-14   | FS51             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-15   | SW18             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-16   | FS52             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-17   | FS53             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-18   | SW19             | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-19   | SW20             | Total/NA  | Solid  | 8021B  | 66321      |

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### QC Association Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

#### GC VOA (Continued)

##### Analysis Batch: 66359 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-20        | FS54                   | Total/NA  | Solid  | 8021B  | 66321      |
| 880-34990-A-2-B MB | Method Blank           | Total/NA  | Solid  | 8021B  | 66358      |
| MB 880-66321/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 66321      |
| LCS 880-66321/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 66321      |
| LCSD 880-66321/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-1 MS      | SW11                   | Total/NA  | Solid  | 8021B  | 66321      |
| 890-5564-1 MSD     | SW11                   | Total/NA  | Solid  | 8021B  | 66321      |

##### Prep Batch: 66434

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-66434/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 66435

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-21         | FS55                   | Total/NA  | Solid  | 5035   |            |
| 890-5564-22         | FS56                   | Total/NA  | Solid  | 5035   |            |
| MB 880-66435/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-66435/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-66435/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5569-A-21-D MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-5569-A-21-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 66703

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-21         | FS55                   | Total/NA  | Solid  | 8021B  | 66435      |
| 890-5564-22         | FS56                   | Total/NA  | Solid  | 8021B  | 66435      |
| MB 880-66434/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 66434      |
| MB 880-66435/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 66435      |
| LCS 880-66435/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 66435      |
| LCSD 880-66435/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 66435      |
| 890-5569-A-21-D MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 66435      |
| 890-5569-A-21-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 66435      |

##### Analysis Batch: 66711

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5564-1    | SW11             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-2    | SW12             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-3    | FS45             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-4    | FS46             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-5    | FS47             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-6    | FS48             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-7    | FS49             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-8    | SW13             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-9    | SW14             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-10   | SW15             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-11   | SW16             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-12   | FS50             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-13   | SW17             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-14   | FS51             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-15   | SW18             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-16   | FS52             | Total/NA  | Solid  | Total BTEX |            |

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### QC Association Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

#### GC VOA (Continued)

##### Analysis Batch: 66711 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5564-17   | FS53             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-18   | SW19             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-19   | SW20             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-20   | FS54             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-21   | FS55             | Total/NA  | Solid  | Total BTEX |            |
| 890-5564-22   | FS56             | Total/NA  | Solid  | Total BTEX |            |

#### GC Semi VOA

##### Prep Batch: 66315

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-5564-1          | SW11                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-2          | SW12                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-3          | FS45                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-4          | FS46                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-5          | FS47                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-6          | FS48                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-7          | FS49                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-8          | SW13                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-9          | SW14                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-10         | SW15                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-11         | SW16                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-12         | FS50                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-13         | SW17                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-14         | FS51                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-66315/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-66315/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-66315/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5563-A-19-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5563-A-19-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

##### Prep Batch: 66317

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5564-15        | SW18                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-16        | FS52                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-17        | FS53                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-18        | SW19                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-19        | SW20                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-20        | FS54                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-21        | FS55                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-22        | FS56                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-66317/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-66317/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-66317/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-18 MS     | SW19                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5564-18 MSD    | SW19                   | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 66340

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-5564-15   | SW18             | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-16   | FS52             | Total/NA  | Solid  | 8015B NM | 66317      |

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### QC Association Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

#### GC Semi VOA (Continued)

##### Analysis Batch: 66340 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-17        | FS53                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-18        | SW19                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-19        | SW20                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-20        | FS54                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-21        | FS55                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-22        | FS56                   | Total/NA  | Solid  | 8015B NM | 66317      |
| MB 880-66317/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 66317      |
| LCS 880-66317/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 66317      |
| LCSD 880-66317/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-18 MS     | SW19                   | Total/NA  | Solid  | 8015B NM | 66317      |
| 890-5564-18 MSD    | SW19                   | Total/NA  | Solid  | 8015B NM | 66317      |

##### Analysis Batch: 66346

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-1          | SW11                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-2          | SW12                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-3          | FS45                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-4          | FS46                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-5          | FS47                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-6          | FS48                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-7          | FS49                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-8          | SW13                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-9          | SW14                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-10         | SW15                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-11         | SW16                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-12         | FS50                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-13         | SW17                   | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5564-14         | FS51                   | Total/NA  | Solid  | 8015B NM | 66315      |
| MB 880-66315/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 66315      |
| LCS 880-66315/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 66315      |
| LCSD 880-66315/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5563-A-19-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 66315      |
| 890-5563-A-19-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 66315      |

##### Analysis Batch: 66480

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5564-1    | SW11             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-2    | SW12             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-3    | FS45             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-4    | FS46             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-5    | FS47             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-6    | FS48             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-7    | FS49             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-8    | SW13             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-9    | SW14             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-10   | SW15             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-11   | SW16             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-12   | FS50             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-13   | SW17             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-14   | FS51             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-15   | SW18             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

## GC Semi VOA (Continued)

## Analysis Batch: 66480 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5564-16   | FS52             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-17   | FS53             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-18   | SW19             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-19   | SW20             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-20   | FS54             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-21   | FS55             | Total/NA  | Solid  | 8015 NM |            |
| 890-5564-22   | FS56             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 66334

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-21         | FS55                   | Soluble   | Solid  | DI Leach |            |
| MB 880-66334/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-66334/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-66334/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-35311-A-6-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-35311-A-6-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 66337

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-22        | FS56                   | Soluble   | Solid  | DI Leach |            |
| MB 880-66337/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-66337/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-66337/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5564-22 MS     | FS56                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-22 MSD    | FS56                   | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 66356

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-1         | SW11                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-2         | SW12                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-3         | FS45                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-4         | FS46                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-5         | FS47                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-6         | FS48                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-7         | FS49                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-8         | SW13                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-9         | SW14                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-10        | SW15                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-11        | SW16                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-12        | FS50                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-13        | SW17                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-14        | FS51                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-15        | SW18                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-16        | FS52                   | Soluble   | Solid  | DI Leach |            |
| MB 880-66356/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-66356/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-66356/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5564-7 MS      | FS49                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-7 MSD     | FS49                   | Soluble   | Solid  | DI Leach |            |

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### QC Association Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

#### HPLC/IC

##### Leach Batch: 66357

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5564-17        | FS53                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-18        | SW19                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-19        | SW20                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-20        | FS54                   | Soluble   | Solid  | DI Leach |            |
| MB 880-66357/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-66357/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-66357/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5564-17 MS     | FS53                   | Soluble   | Solid  | DI Leach |            |
| 890-5564-17 MSD    | FS53                   | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 66438

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-21         | FS55                   | Soluble   | Solid  | 300.0  | 66334      |
| MB 880-66334/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 66334      |
| LCS 880-66334/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 66334      |
| LCSD 880-66334/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 66334      |
| 880-35311-A-6-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 66334      |
| 880-35311-A-6-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 66334      |

##### Analysis Batch: 66512

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-1         | SW11                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-2         | SW12                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-3         | FS45                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-4         | FS46                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-5         | FS47                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-6         | FS48                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-7         | FS49                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-8         | SW13                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-9         | SW14                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-10        | SW15                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-11        | SW16                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-12        | FS50                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-13        | SW17                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-14        | FS51                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-15        | SW18                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-16        | FS52                   | Soluble   | Solid  | 300.0  | 66356      |
| MB 880-66356/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 66356      |
| LCS 880-66356/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 66356      |
| LCSD 880-66356/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-7 MS      | FS49                   | Soluble   | Solid  | 300.0  | 66356      |
| 890-5564-7 MSD     | FS49                   | Soluble   | Solid  | 300.0  | 66356      |

##### Analysis Batch: 66513

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 890-5564-17       | FS53               | Soluble   | Solid  | 300.0  | 66357      |
| 890-5564-18       | SW19               | Soluble   | Solid  | 300.0  | 66357      |
| 890-5564-19       | SW20               | Soluble   | Solid  | 300.0  | 66357      |
| 890-5564-20       | FS54               | Soluble   | Solid  | 300.0  | 66357      |
| MB 880-66357/1-A  | Method Blank       | Soluble   | Solid  | 300.0  | 66357      |
| LCS 880-66357/2-A | Lab Control Sample | Soluble   | Solid  | 300.0  | 66357      |

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### QC Association Summary

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

#### HPLC/IC (Continued)

##### Analysis Batch: 66513 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCSD 880-66357/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 66357      |
| 890-5564-17 MS     | FS53                   | Soluble   | Solid  | 300.0  | 66357      |
| 890-5564-17 MSD    | FS53                   | Soluble   | Solid  | 300.0  | 66357      |

##### Analysis Batch: 66518

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5564-22        | FS56                   | Soluble   | Solid  | 300.0  | 66337      |
| MB 880-66337/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 66337      |
| LCS 880-66337/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 66337      |
| LCSD 880-66337/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 66337      |
| 890-5564-22 MS     | FS56                   | Soluble   | Solid  | 300.0  | 66337      |
| 890-5564-22 MSD    | FS56                   | Soluble   | Solid  | 300.0  | 66337      |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW11**

**Lab Sample ID: 890-5564-1**

Date Collected: 11/02/23 09:00

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 05:35       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 05:35       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 14:55       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 14:55       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 08:53       | CH      | EET MID |

**Client Sample ID: SW12**

**Lab Sample ID: 890-5564-2**

Date Collected: 11/02/23 09:05

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 06:01       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 06:01       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 15:17       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.91 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 15:17       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:09       | CH      | EET MID |

**Client Sample ID: FS45**

**Lab Sample ID: 890-5564-3**

Date Collected: 11/02/23 09:10

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 06:26       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 06:26       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 15:38       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.90 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 15:38       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:14       | CH      | EET MID |

**Client Sample ID: FS46**

**Lab Sample ID: 890-5564-4**

Date Collected: 11/02/23 09:15

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 06:52       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 06:52       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS46**

**Lab Sample ID: 890-5564-4**

Date Collected: 11/02/23 09:15

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 16:00       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 16:00       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:19       | CH      | EET MID |

**Client Sample ID: FS47**

**Lab Sample ID: 890-5564-5**

Date Collected: 11/02/23 09:20

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 07:19       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 07:19       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 16:45       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 16:45       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:25       | CH      | EET MID |

**Client Sample ID: FS48**

**Lab Sample ID: 890-5564-6**

Date Collected: 11/02/23 10:00

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 07:46       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 07:46       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 17:08       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 17:08       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:30       | CH      | EET MID |

**Client Sample ID: FS49**

**Lab Sample ID: 890-5564-7**

Date Collected: 11/02/23 10:05

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 08:12       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 08:12       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 17:30       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.97 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 17:30       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS49**

**Lab Sample ID: 890-5564-7**

Date Collected: 11/02/23 10:05

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:35       | CH      | EET MID |

**Client Sample ID: SW13**

**Lab Sample ID: 890-5564-8**

Date Collected: 11/02/23 10:10

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 08:38       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 08:38       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 17:53       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 17:53       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:51       | CH      | EET MID |

**Client Sample ID: SW14**

**Lab Sample ID: 890-5564-9**

Date Collected: 11/02/23 10:15

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 09:51       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 18:14       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 18:14       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 09:56       | CH      | EET MID |

**Client Sample ID: SW15**

**Lab Sample ID: 890-5564-10**

Date Collected: 11/02/23 10:20

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 10:17       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 10:17       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 18:36       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.10 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 18:36       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:12       | CH      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: SW16**  
 Date Collected: 11/02/23 10:25  
 Date Received: 11/03/23 08:21

**Lab Sample ID: 890-5564-11**  
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 12:02       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 12:02       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 18:57       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 18:57       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:17       | CH      | EET MID |

**Client Sample ID: FS50**  
 Date Collected: 11/02/23 11:00  
 Date Received: 11/03/23 08:21

**Lab Sample ID: 890-5564-12**  
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 12:28       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 12:28       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 19:19       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 19:19       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:22       | CH      | EET MID |

**Client Sample ID: SW17**  
 Date Collected: 11/02/23 11:05  
 Date Received: 11/03/23 08:21

**Lab Sample ID: 890-5564-13**  
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 12:54       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 12:54       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 19:40       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 19:40       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:27       | CH      | EET MID |

**Client Sample ID: FS51**  
 Date Collected: 11/02/23 11:10  
 Date Received: 11/03/23 08:21

**Lab Sample ID: 890-5564-14**  
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 13:21       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 13:21       | SM      | EET MID |

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### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS51**

**Lab Sample ID: 890-5564-14**

Date Collected: 11/02/23 11:10

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 20:02       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 66315        | 11/06/23 16:30       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66346        | 11/07/23 20:02       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:32       | CH      | EET MID |

**Client Sample ID: SW18**

**Lab Sample ID: 890-5564-15**

Date Collected: 11/02/23 11:15

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 13:47       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 13:47       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 12:51       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 12:51       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 10:38       | CH      | EET MID |

**Client Sample ID: FS52**

**Lab Sample ID: 890-5564-16**

Date Collected: 11/02/23 11:20

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 14:13       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 14:13       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 13:15       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 13:15       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 66356        | 11/07/23 11:35       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66512        | 11/08/23 12:46       | CH      | EET MID |

**Client Sample ID: FS53**

**Lab Sample ID: 890-5564-17**

Date Collected: 11/02/23 11:25

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 14:39       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 14:39       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 13:38       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 13:38       | SM      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS53**

**Lab Sample ID: 890-5564-17**

Date Collected: 11/02/23 11:25

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 66357        | 11/07/23 11:38       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66513        | 11/08/23 08:43       | CH      | EET MID |

**Client Sample ID: SW19**

**Lab Sample ID: 890-5564-18**

Date Collected: 11/02/23 12:30

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 15:05       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 15:05       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 11:43       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 11:43       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 66357        | 11/07/23 11:38       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66513        | 11/08/23 09:00       | CH      | EET MID |

**Client Sample ID: SW20**

**Lab Sample ID: 890-5564-19**

Date Collected: 11/02/23 12:35

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 15:31       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 15:31       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 14:03       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 14:03       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 66357        | 11/07/23 11:38       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66513        | 11/08/23 09:05       | CH      | EET MID |

**Client Sample ID: FS54**

**Lab Sample ID: 890-5564-20**

Date Collected: 11/02/23 12:40

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 66321        | 11/06/23 17:15       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66359        | 11/08/23 15:57       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/08/23 15:57       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 14:27       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 14:27       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 66357        | 11/07/23 11:38       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66513        | 11/08/23 09:11       | CH      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

**Client Sample ID: FS55**

**Lab Sample ID: 890-5564-21**

Date Collected: 11/02/23 12:45

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 66435        | 11/08/23 12:08       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66703        | 11/12/23 03:56       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/12/23 03:56       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 14:52       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 14:52       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 66334        | 11/06/23 20:14       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 66438        | 11/07/23 16:40       | CH      | EET MID |

**Client Sample ID: FS56**

**Lab Sample ID: 890-5564-22**

Date Collected: 11/02/23 12:50

Matrix: Solid

Date Received: 11/03/23 08:21

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 66435        | 11/08/23 12:00       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 66703        | 11/12/23 04:23       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 66711        | 11/12/23 04:23       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 66480        | 11/07/23 15:17       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 66317        | 11/06/23 16:35       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 66340        | 11/07/23 15:17       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 66337        | 11/06/23 20:19       | CH      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 10 mL          | 10 mL        | 66518        | 11/08/23 15:19       | CH      | EET MID |

**Laboratory References:**

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



### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
SDG: 32.2907,-105.86154

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-23-26      | 06-30-24        |

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

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

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

### Method Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

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

**Protocol References:**

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

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
 Project/Site: Beu Connector Mobley Ranch Pipeline

Job ID: 890-5564-1  
 SDG: 32.2907,-105.86154

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5564-1    | SW11             | Solid  | 11/02/23 09:00 | 11/03/23 08:21 | 0-2   |
| 890-5564-2    | SW12             | Solid  | 11/02/23 09:05 | 11/03/23 08:21 | 0-2   |
| 890-5564-3    | FS45             | Solid  | 11/02/23 09:10 | 11/03/23 08:21 | 2     |
| 890-5564-4    | FS46             | Solid  | 11/02/23 09:15 | 11/03/23 08:21 | 2     |
| 890-5564-5    | FS47             | Solid  | 11/02/23 09:20 | 11/03/23 08:21 | 2     |
| 890-5564-6    | FS48             | Solid  | 11/02/23 10:00 | 11/03/23 08:21 | 2     |
| 890-5564-7    | FS49             | Solid  | 11/02/23 10:05 | 11/03/23 08:21 | 3     |
| 890-5564-8    | SW13             | Solid  | 11/02/23 10:10 | 11/03/23 08:21 | 0-2   |
| 890-5564-9    | SW14             | Solid  | 11/02/23 10:15 | 11/03/23 08:21 | 0-2   |
| 890-5564-10   | SW15             | Solid  | 11/02/23 10:20 | 11/03/23 08:21 | 0-3   |
| 890-5564-11   | SW16             | Solid  | 11/02/23 10:25 | 11/03/23 08:21 | 0-3   |
| 890-5564-12   | FS50             | Solid  | 11/02/23 11:00 | 11/03/23 08:21 | 3     |
| 890-5564-13   | SW17             | Solid  | 11/02/23 11:05 | 11/03/23 08:21 | 0-3   |
| 890-5564-14   | FS51             | Solid  | 11/02/23 11:10 | 11/03/23 08:21 | 3     |
| 890-5564-15   | SW18             | Solid  | 11/02/23 11:15 | 11/03/23 08:21 | 0-2   |
| 890-5564-16   | FS52             | Solid  | 11/02/23 11:20 | 11/03/23 08:21 | 3     |
| 890-5564-17   | FS53             | Solid  | 11/02/23 11:25 | 11/03/23 08:21 | 3     |
| 890-5564-18   | SW19             | Solid  | 11/02/23 12:30 | 11/03/23 08:21 | 0-2   |
| 890-5564-19   | SW20             | Solid  | 11/02/23 12:35 | 11/03/23 08:21 | 0-2   |
| 890-5564-20   | FS54             | Solid  | 11/02/23 12:40 | 11/03/23 08:21 | 2     |
| 890-5564-21   | FS55             | Solid  | 11/02/23 12:45 | 11/03/23 08:21 | 2     |
| 890-5564-22   | FS56             | Solid  | 11/02/23 12:50 | 11/03/23 08:21 | 2     |

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# Chain of Custody

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

## Environment Testing



Work Order No:

www.xenco.com Page 1 of 3

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

Project Manager: Ben Bellil  
 Company Name: Enselco LLC  
 Address: 3122 National Parks Hwy  
 City, State ZIP: Carlsbad, NM, 88220  
 Phone: 989-851-0852  
 Email: BBellil@enselco.com

Project Name: BEU contract for wastewater meter for Abad Pipeline  
 Project Number: 03558045  
 Project Location: 32.2907, -106.86154  
 Sampler's Name: Sarah Welby  
 PO #:   
 Bill to: (if different) Garrett Green  
 Company Name: XTO Energy  
 Address: 3101 E Greene St  
 City, State ZIP: Carlsbad, NM, 88220  
 Email: BBellil@enselco.com

| Sample Identification  | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters |    | Pres. Code | ANALYSIS REQUEST                                   | Preservative Codes         |
|--|--------|--------------|--------------|-------|-----------|-----------|------------|----|------------|--|----------------------------|
|  |        |              |              |       |           |           | Yes        | No |            |  |                            |
| SW11   | S      | 11/02/23     | 9:00         | 0-2   | C         | 1         |            |    |            | None: NO   | DI Water: H <sub>2</sub> O |
| SW12   | S      | 9:05         | 9:10         | 0-2   | C         | 1         |            |    |            | Cool: Cool   | MeOH: Me                   |
| FS 45  | S      | 9:15         | 9:20         | 2     | C         | 1         |            |    |            | HCL: HC  | HNO <sub>3</sub> : HN      |
| FS 46  | S      | 10:00        | 10:05        | 3     | C         | 1         |            |    |            | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>    | NaOH: Na                   |
| FS 47  | S      | 10:10        | 10:15        | 0-2   | C         | 1         |            |    |            | H <sub>3</sub> PO <sub>4</sub> : HP                |                            |
| FS 48  | S      | 10:20        | 10:25        | 0-3   | C         | 1         |            |    |            | NaHSO <sub>4</sub> : NABIS                         |                            |
| SW 13  | S      | 10:10        | 10:15        | 0-2   | C         | 1         |            |    |            | Na <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |                            |
| SW 14  | S      | 10:15        | 10:20        | 0-2   | C         | 1         |            |    |            | Zn Acetate+NaOH: Zn                                |                            |
| SW 15  | S      | 10:20        | 10:25        | 0-3   | C         | 1         |            |    |            | NaOH+Ascorbic Acid: SACP                           |                            |
| Samples Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Thermometer ID: TMM007<br>Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Correction Factor: -0.2<br>Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature Reading: 1.2<br>Total Containers: Corrected Temperature: 1.0 |        |              |              |       |           |           |            |    |            |  |                            |

Total 2007/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Tl Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Date/Time |
|------------------------------|--------------------------|-----------|-----------|
|                              |                          | 11/3      | 2:28      |
|                              |                          |           |           |
|                              |                          |           |           |
|                              |                          |           |           |







# 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) 585-3445, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing**  
**Xenco**



Work Order No.:

www.xenco.com Page 3 of 3

|                                      |                             |                     |
|--------------------------------------|-----------------------------|---------------------|
| Project Manager: Ben Bellili         | Bill to: (if different)     | Garrett Green       |
| Company Name: Ensolvum LLC           | Company Name:               | XTO Energy          |
| Address: 3122 National Park Hwy      | Address:                    | 3104 E Geneva St    |
| City, State ZIP: Carlsbad, NM, 88220 | City, State ZIP:            | Carlsbad, NM, 88220 |
| Phone: 989-854-0652                  | Email: bellili@ensolvum.com |                     |

|  |   |  |
|--|---|--|
| Project Name: BFLV contract for wastewater treatment plant | ANALYSIS REQUEST  | Preservative Codes   |
| Project Number: 031558043                                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | None: NO<br>DI Water: H <sub>2</sub> O<br>Cool: Cool<br>MeOH: Me<br>HCL: HC<br>HNO <sub>3</sub> : HN<br>H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub><br>H <sub>3</sub> PO <sub>4</sub> : HP<br>NaHSO <sub>4</sub> : NABIS<br>Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub><br>Zn Acetate+NaOH: Zn<br>NaOH+Ascorbic Acid: SACP |
| Project Location: 32.2107, -103.76159                      | Due Date:   |  |
| Sampler's Name: Sarah Welby                                | TAT starts the day received by the lab, if received by 4:30pm             |  |
| P.O. #:  |   |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Sample Comments                                 |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|---|
| FS 55                 | S      | 11/02/23     | 12:45        | 2     | C         | 2         | X U F F    | COST CENTER<br>108171001                        |
| FS 56                 | S      | 11/02/23     | 12:50        | 2     | C         | 2         | X U F F    | ACCIDENT #S<br>NAPP2213151424<br>NAPP2316045229 |

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Date/Time |
|------------------------------|--------------------------|-----------|-----------|
| 1 <i>[Signature]</i>         | 2 <i>[Signature]</i>     | 11/3      | 8/21      |
| 3 <i>[Signature]</i>         | 4 <i>[Signature]</i>     |           |           |
| 5 <i>[Signature]</i>         | 6 <i>[Signature]</i>     |           |           |



### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5564-1  
SDG Number: 32.2907,-105.86154

**Login Number: 5564**

**List Number: 1**

**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5564-1  
SDG Number: 32.2907,-105.86154

**Login Number: 5564**  
**List Number: 2**  
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**  
**List Creation: 11/06/23 01:01 PM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 11/7/2023 2:39:07 PM

## JOB DESCRIPTION

BFU Connector AW Booster Mobley Ranch Pipeline  
 SDG NUMBER 32.2907, -103.86159

## JOB NUMBER

880-35219-1

Eurofins Midland  
 1211 W. Florida Ave  
 Midland TX 79701



# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated  
11/7/2023 2:39:07 PM

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

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Client: Ensolum  
Project/Site: BFU Connector AW Booster Mobley Ranch Pipeline

Laboratory Job ID: 880-35219-1  
SDG: 32.2907, -103.86159

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## Definitions/Glossary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: BFU Connector AW Booster Mobley Ranch Pipeline

Job ID: 880-35219-1  
SDG: 32.2907, -103.86159

**Job ID: 880-35219-1****Laboratory: Eurofins Midland****Narrative**

**Job Narrative**  
**880-35219-1**

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

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

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

**Receipt**

The samples were received on 11/2/2023 10:51 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SW05 (880-35219-1), SW06 (880-35219-2), SW07 (880-35219-3), SW08 (880-35219-4), FS 41 (880-35219-5), FS 42 (880-35219-6), FS 43 (880-35219-7), SW 9 (880-35219-8), SW 10 (880-35219-9) and FS 44 (880-35219-10).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66217 and analytical batch 880-66220 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-66217 and analytical batch 880-66220 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-66134 and analytical batch 880-66125 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SW05 (880-35219-1), SW06 (880-35219-2), SW07 (880-35219-3), SW08 (880-35219-4), FS 41 (880-35219-5), FS 42 (880-35219-6), FS 43 (880-35219-7), SW 9 (880-35219-8), SW 10 (880-35219-9), FS 44 (880-35219-10), (880-35214-A-7-D), (880-35214-A-7-E MS) and (880-35214-A-7-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66125/20), (CCV 880-66125/31) and (CCV 880-66125/5). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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



### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW05**

**Lab Sample ID: 880-35219-1**

Date Collected: 10/30/23 14:05

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 12:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 12:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 12:47 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 11/06/23 12:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/03/23 12:06 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:06 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 162       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 12:06 | 1       |
| o-Terphenyl    | 155       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 12:06 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 199    |           | 5.00 | mg/Kg |   |          | 11/07/23 09:00 | 1       |

**Client Sample ID: SW06**

**Lab Sample ID: 880-35219-2**

Date Collected: 10/30/23 14:10

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:07 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW06**  
 Date Collected: 10/30/23 14:10  
 Date Received: 11/02/23 10:51  
 Sample Depth: 0-2

**Lab Sample ID: 880-35219-2**  
 Matrix: Solid

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 13:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 13:07 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 11/06/23 13:07 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5  | U         | 50.5 | mg/Kg |   |          | 11/03/23 12:28 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5  | U         | 50.5 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5  | U         | 50.5 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5  | U         | 50.5 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:28 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 157       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 12:28 | 1       |
| o-Terphenyl    | 150       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 12:28 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 133    |           | 4.95 | mg/Kg |   |          | 11/07/23 09:06 | 1       |

**Client Sample ID: SW07**  
 Date Collected: 10/30/23 14:15  
 Date Received: 11/02/23 10:51  
 Sample Depth: 0-2

**Lab Sample ID: 880-35219-3**  
 Matrix: Solid

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 13:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 13:28 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 11/06/23 13:28 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW07**

**Lab Sample ID: 880-35219-3**

Date Collected: 10/30/23 14:15

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

**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 |   |          | 11/03/23 12:49 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 12:49 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 178       | S1+       | 70 - 130 |       |   | 11/03/23 09:36 | 11/03/23 12:49 | 1       |
| o-Terphenyl                          | 171       | S1+       | 70 - 130 |       |   | 11/03/23 09:36 | 11/03/23 12:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 70.6   |           | 5.00 | mg/Kg |   |          | 11/07/23 09:23 | 1       |

**Client Sample ID: SW08**

**Lab Sample ID: 880-35219-4**

Date Collected: 10/30/23 14:20

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| m-Xylene & p-Xylene         | <0.00404  | U         | 0.00404  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| Xylenes, Total              | <0.00404  | U         | 0.00404  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 |       |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |       |   | 11/04/23 17:22 | 11/06/23 13:48 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 | mg/Kg |   |          | 11/06/23 13:48 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 | mg/Kg |   |          | 11/03/23 13:10 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:10 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW08**

**Lab Sample ID: 880-35219-4**

Date Collected: 10/30/23 14:20

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 152       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:10 | 1       |
| o-Terphenyl    | 141       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:10 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 60.9   |           | 4.98 | mg/Kg |   |          | 11/07/23 09:29 | 1       |

**Client Sample ID: FS 41**

**Lab Sample ID: 880-35219-5**

Date Collected: 10/30/23 14:30

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:09 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 11/06/23 14:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 | mg/Kg |   |          | 11/03/23 13:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:32 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 144       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:32 | 1       |
| o-Terphenyl    | 139       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:32 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 148    |           | 5.02 | mg/Kg |   |          | 11/07/23 09:46 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: FS 42**

**Lab Sample ID: 880-35219-6**

Date Collected: 10/30/23 14:35

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:29 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 11/06/23 14:29 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3  | U         | 50.3 | mg/Kg |   |          | 11/03/23 13:54 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3  | U         | 50.3 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U         | 50.3 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 13:54 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 149       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:54 | 1       |
| o-Terphenyl    | 140       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 13:54 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 142    |           | 4.98 | mg/Kg |   |          | 11/07/23 09:51 | 1       |

**Client Sample ID: FS 43**

**Lab Sample ID: 880-35219-7**

Date Collected: 10/30/23 14:40

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 14:50 | 1       |

### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: FS 43**

**Lab Sample ID: 880-35219-7**

Date Collected: 10/30/23 14:40

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 2

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 14:50 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 11/06/23 14:50 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 | mg/Kg |   |          | 11/03/23 14:17 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 157       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 14:17 | 1       |
| o-Terphenyl    | 149       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 14:17 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 565    |           | 4.99 | mg/Kg |   |          | 11/07/23 09:57 | 1       |

**Client Sample ID: SW 9**

**Lab Sample ID: 880-35219-8**

Date Collected: 10/31/23 13:00

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 15:10 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 15:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 15:10 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 11/06/23 15:10 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW 9**

**Lab Sample ID: 880-35219-8**

Date Collected: 10/31/23 13:00

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4  | U         | 50.4 | mg/Kg |   |          | 11/03/23 14:39 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:39 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 11/03/23 09:36 | 11/03/23 14:39 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 151       | S1+       | 70 - 130 |       |   | 11/03/23 09:36 | 11/03/23 14:39 | 1       |
| o-Terphenyl                          | 144       | S1+       | 70 - 130 |       |   | 11/03/23 09:36 | 11/03/23 14:39 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 435    |           | 4.98 | mg/Kg |   |          | 11/07/23 10:03 | 1       |

**Client Sample ID: SW 10**

**Lab Sample ID: 880-35219-9**

Date Collected: 10/31/23 13:05

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 |       |   | 11/04/23 17:22 | 11/06/23 17:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 |       |   | 11/04/23 17:22 | 11/06/23 17:01 | 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 |   |          | 11/06/23 17:01 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 11/03/23 15:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:01 | 1       |

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### Client Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW 10**

**Lab Sample ID: 880-35219-9**

Date Collected: 10/31/23 13:05

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 0-2

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 151       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 15:01 | 1       |
| o-Terphenyl    | 146       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 15:01 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 164    |           | 5.01 | mg/Kg |   |          | 11/07/23 10:08 | 1       |

**Client Sample ID: FS 44**

**Lab Sample ID: 880-35219-10**

Date Collected: 10/31/23 14:00

Matrix: Solid

Date Received: 11/02/23 10:51

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 17:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 17:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 115       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 17:21 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 11/06/23 17:21 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 11/03/23 15:44 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:44 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:44 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 11/03/23 09:36 | 11/03/23 15:44 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 159       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 15:44 | 1       |
| o-Terphenyl    | 148       | S1+       | 70 - 130 | 11/03/23 09:36 | 11/03/23 15:44 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 402    |           | 5.02 | mg/Kg |   |          | 11/07/23 10:14 | 1       |

## Surrogate Summary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|--|-------------------|
|                    |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-35219-1        | SW05                   | 93   | 112               |
| 880-35219-2        | SW06                   | 94   | 107               |
| 880-35219-3        | SW07                   | 101  | 108               |
| 880-35219-4        | SW08                   | 101  | 107               |
| 880-35219-5        | FS 41                  | 99   | 104               |
| 880-35219-6        | FS 42                  | 98   | 113               |
| 880-35219-7        | FS 43                  | 96   | 113               |
| 880-35219-8        | SW 9                   | 102  | 110               |
| 880-35219-9        | SW 10                  | 81   | 104               |
| 880-35219-10       | FS 44                  | 98   | 115               |
| LCS 880-66217/1-A  | Lab Control Sample     | 87   | 108               |
| LCSD 880-66217/2-A | Lab Control Sample Dup | 93   | 108               |
| MB 880-66217/5-A   | Method Blank           | 106  | 149 S1+           |

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|--|-------------------|
|                    |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-35219-1        | SW05                   | 162 S1+  | 155 S1+           |
| 880-35219-2        | SW06                   | 157 S1+  | 150 S1+           |
| 880-35219-3        | SW07                   | 178 S1+  | 171 S1+           |
| 880-35219-4        | SW08                   | 152 S1+  | 141 S1+           |
| 880-35219-5        | FS 41                  | 144 S1+  | 139 S1+           |
| 880-35219-6        | FS 42                  | 149 S1+  | 140 S1+           |
| 880-35219-7        | FS 43                  | 157 S1+  | 149 S1+           |
| 880-35219-8        | SW 9                   | 151 S1+  | 144 S1+           |
| 880-35219-9        | SW 10                  | 151 S1+  | 146 S1+           |
| 880-35219-10       | FS 44                  | 159 S1+  | 148 S1+           |
| LCS 880-66134/2-A  | Lab Control Sample     | 106  | 117               |
| LCSD 880-66134/3-A | Lab Control Sample Dup | 102  | 110               |
| MB 880-66134/1-A   | Method Blank           | 219 S1+  | 213 S1+           |

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

### QC Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

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

Lab Sample ID: MB 880-66217/5-A  
 Matrix: Solid  
 Analysis Batch: 66220

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 66217

| Analyte             | MB       | MB        | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
|                     | Result   | Qualifier |         |       |   |                |                |         |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 11/04/23 17:22 | 11/06/23 11:37 | 1       |

| Surrogate                   | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 11/04/23 17:22 | 11/06/23 11:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 149       | S1+       | 70 - 130 | 11/04/23 17:22 | 11/06/23 11:37 | 1       |

Lab Sample ID: LCS 880-66217/1-A  
 Matrix: Solid  
 Analysis Batch: 66220

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 66217

| Analyte             | Spike Added | LCS     | LCS       | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|---------|-----------|-------|---|------|-------------|
|                     |             | Result  | Qualifier |       |   |      |             |
| Benzene             | 0.100       | 0.08978 |           | mg/Kg |   | 90   | 70 - 130    |
| Toluene             | 0.100       | 0.08009 |           | mg/Kg |   | 80   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.07424 |           | mg/Kg |   | 74   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1692  |           | mg/Kg |   | 85   | 70 - 130    |
| o-Xylene            | 0.100       | 0.08224 |           | mg/Kg |   | 82   | 70 - 130    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 87        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |

Lab Sample ID: LCSD 880-66217/2-A  
 Matrix: Solid  
 Analysis Batch: 66220

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 66217

| Analyte             | Spike Added | LCSD    | LCSD      | Unit  | D | %Rec | %Rec Limits | RPD |       |
|---------------------|-------------|---------|-----------|-------|---|------|-------------|-----|-------|
|                     |             | Result  | Qualifier |       |   |      |             | RPD | Limit |
| Benzene             | 0.100       | 0.1015  |           | mg/Kg |   | 101  | 70 - 130    | 12  | 35    |
| Toluene             | 0.100       | 0.08627 |           | mg/Kg |   | 86   | 70 - 130    | 7   | 35    |
| Ethylbenzene        | 0.100       | 0.08339 |           | mg/Kg |   | 83   | 70 - 130    | 12  | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.1882  |           | mg/Kg |   | 94   | 70 - 130    | 11  | 35    |
| o-Xylene            | 0.100       | 0.09193 |           | mg/Kg |   | 92   | 70 - 130    | 11  | 35    |

| Surrogate                   | LCSD      | LCSD      | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |

### QC Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

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

Lab Sample ID: MB 880-66134/1-A  
 Matrix: Solid  
 Analysis Batch: 66125

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 66134

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 11/03/23 07:36 | 11/03/23 08:26 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 11/03/23 07:36 | 11/03/23 08:26 | 1       |
| Oll Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 11/03/23 07:36 | 11/03/23 08:26 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 219          | S1+          | 70 - 130 | 11/03/23 07:36 | 11/03/23 08:26 | 1       |
| o-Terphenyl    | 213          | S1+          | 70 - 130 | 11/03/23 07:36 | 11/03/23 08:26 | 1       |

Lab Sample ID: LCS 880-66134/2-A  
 Matrix: Solid  
 Analysis Batch: 66125

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 66134

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 915.5      |               | mg/Kg |   | 92   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 993.8      |               | mg/Kg |   | 99   | 70 - 130    |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 106           |               | 70 - 130 |
| o-Terphenyl    | 117           |               | 70 - 130 |

Lab Sample ID: LCSD 880-66134/3-A  
 Matrix: Solid  
 Analysis Batch: 66125

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 66134

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 892.9       |                | mg/Kg |   | 89   | 70 - 130    | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 943.7       |                | mg/Kg |   | 94   | 70 - 130    | 5   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 102            |                | 70 - 130 |
| o-Terphenyl    | 110            |                | 70 - 130 |

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

Lab Sample ID: MB 880-66079/1-A  
 Matrix: Solid  
 Analysis Batch: 66353

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 11/07/23 07:30 | 1       |

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### QC Sample Results

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

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

Lab Sample ID: LCS 880-66079/2-A  
 Matrix: Solid  
 Analysis Batch: 66353

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 253.4      |               | mg/Kg |   | 101  | 90 - 110    |

Lab Sample ID: LCSD 880-66079/3-A  
 Matrix: Solid  
 Analysis Batch: 66353

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

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 253.3       |                | mg/Kg |   | 101  | 90 - 110    | 0   | 20        |

Lab Sample ID: 880-35219-2 MS  
 Matrix: Solid  
 Analysis Batch: 66353

Client Sample ID: SW06  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 133           |                  | 248         | 395.0     |              | mg/Kg |   | 106  | 90 - 110    |

Lab Sample ID: 880-35219-2 MSD  
 Matrix: Solid  
 Analysis Batch: 66353

Client Sample ID: SW06  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 133           |                  | 248         | 390.8      |               | mg/Kg |   | 104  | 90 - 110    | 1   | 20        |

### QC Association Summary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

#### GC VOA

##### Prep Batch: 66217

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35219-1        | SW05                   | Total/NA  | Solid  | 5035   |            |
| 880-35219-2        | SW06                   | Total/NA  | Solid  | 5035   |            |
| 880-35219-3        | SW07                   | Total/NA  | Solid  | 5035   |            |
| 880-35219-4        | SW08                   | Total/NA  | Solid  | 5035   |            |
| 880-35219-5        | FS 41                  | Total/NA  | Solid  | 5035   |            |
| 880-35219-6        | FS 42                  | Total/NA  | Solid  | 5035   |            |
| 880-35219-7        | FS 43                  | Total/NA  | Solid  | 5035   |            |
| 880-35219-8        | SW 9                   | Total/NA  | Solid  | 5035   |            |
| 880-35219-9        | SW 10                  | Total/NA  | Solid  | 5035   |            |
| 880-35219-10       | FS 44                  | Total/NA  | Solid  | 5035   |            |
| MB 880-66217/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-66217/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-66217/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 66220

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35219-1        | SW05                   | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-2        | SW06                   | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-3        | SW07                   | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-4        | SW08                   | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-5        | FS 41                  | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-6        | FS 42                  | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-7        | FS 43                  | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-8        | SW 9                   | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-9        | SW 10                  | Total/NA  | Solid  | 8021B  | 66217      |
| 880-35219-10       | FS 44                  | Total/NA  | Solid  | 8021B  | 66217      |
| MB 880-66217/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 66217      |
| LCS 880-66217/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 66217      |
| LCSD 880-66217/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 66217      |

##### Analysis Batch: 66396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-35219-1   | SW05             | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-2   | SW06             | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-3   | SW07             | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-4   | SW08             | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-5   | FS 41            | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-6   | FS 42            | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-7   | FS 43            | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-8   | SW 9             | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-9   | SW 10            | Total/NA  | Solid  | Total BTEX |            |
| 880-35219-10  | FS 44            | Total/NA  | Solid  | Total BTEX |            |

#### GC Semi VOA

##### Analysis Batch: 66125

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-35219-1   | SW05             | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-2   | SW06             | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-3   | SW07             | Total/NA  | Solid  | 8015B NM | 66134      |

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### QC Association Summary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

#### GC Semi VOA (Continued)

##### Analysis Batch: 66125 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-35219-4        | SW08                   | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-5        | FS 41                  | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-6        | FS 42                  | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-7        | FS 43                  | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-8        | SW 9                   | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-9        | SW 10                  | Total/NA  | Solid  | 8015B NM | 66134      |
| 880-35219-10       | FS 44                  | Total/NA  | Solid  | 8015B NM | 66134      |
| MB 880-66134/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 66134      |
| LCS 880-66134/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 66134      |
| LCSD 880-66134/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 66134      |

##### Prep Batch: 66134

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-35219-1        | SW05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-2        | SW06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-3        | SW07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-4        | SW08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-5        | FS 41                  | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-6        | FS 42                  | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-7        | FS 43                  | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-8        | SW 9                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-9        | SW 10                  | Total/NA  | Solid  | 8015NM Prep |            |
| 880-35219-10       | FS 44                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-66134/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-66134/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-66134/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 66275

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-35219-1   | SW05             | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-2   | SW06             | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-3   | SW07             | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-4   | SW08             | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-5   | FS 41            | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-6   | FS 42            | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-7   | FS 43            | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-8   | SW 9             | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-9   | SW 10            | Total/NA  | Solid  | 8015 NM |            |
| 880-35219-10  | FS 44            | Total/NA  | Solid  | 8015 NM |            |

#### HPLC/IC

##### Leach Batch: 66079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-35219-1   | SW05             | Soluble   | Solid  | DI Leach |            |
| 880-35219-2   | SW06             | Soluble   | Solid  | DI Leach |            |
| 880-35219-3   | SW07             | Soluble   | Solid  | DI Leach |            |
| 880-35219-4   | SW08             | Soluble   | Solid  | DI Leach |            |
| 880-35219-5   | FS 41            | Soluble   | Solid  | DI Leach |            |
| 880-35219-6   | FS 42            | Soluble   | Solid  | DI Leach |            |

Eurofins Midland

### QC Association Summary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

#### HPLC/IC (Continued)

##### Leach Batch: 66079 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-35219-7        | FS 43                  | Soluble   | Solid  | DI Leach |            |
| 880-35219-8        | SW 9                   | Soluble   | Solid  | DI Leach |            |
| 880-35219-9        | SW 10                  | Soluble   | Solid  | DI Leach |            |
| 880-35219-10       | FS 44                  | Soluble   | Solid  | DI Leach |            |
| MB 880-66079/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-66079/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-66079/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-35219-2 MS     | SW06                   | Soluble   | Solid  | DI Leach |            |
| 880-35219-2 MSD    | SW06                   | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 66353

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35219-1        | SW05                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-2        | SW06                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-3        | SW07                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-4        | SW08                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-5        | FS 41                  | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-6        | FS 42                  | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-7        | FS 43                  | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-8        | SW 9                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-9        | SW 10                  | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-10       | FS 44                  | Soluble   | Solid  | 300.0  | 66079      |
| MB 880-66079/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 66079      |
| LCS 880-66079/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 66079      |
| LCSD 880-66079/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-2 MS     | SW06                   | Soluble   | Solid  | 300.0  | 66079      |
| 880-35219-2 MSD    | SW06                   | Soluble   | Solid  | 300.0  | 66079      |

### Lab Chronicle

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW05**

**Lab Sample ID: 880-35219-1**

Date Collected: 10/30/23 14:05

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 12:47       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 12:47       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 12:06       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 12:06       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:00       |

**Client Sample ID: SW06**

**Lab Sample ID: 880-35219-2**

Date Collected: 10/30/23 14:10

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 13:07       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 13:07       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 12:28       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 12:28       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:06       |

**Client Sample ID: SW07**

**Lab Sample ID: 880-35219-3**

Date Collected: 10/30/23 14:15

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 13:28       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 13:28       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 12:49       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 12:49       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:23       |

**Client Sample ID: SW08**

**Lab Sample ID: 880-35219-4**

Date Collected: 10/30/23 14:20

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 13:48       |

### Lab Chronicle

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: SW08**

**Lab Sample ID: 880-35219-4**

Date Collected: 10/30/23 14:20

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 13:48       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 13:10       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 13:10       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:29       |

**Client Sample ID: FS 41**

**Lab Sample ID: 880-35219-5**

Date Collected: 10/30/23 14:30

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 14:09       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 14:09       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 13:32       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 13:32       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:46       |

**Client Sample ID: FS 42**

**Lab Sample ID: 880-35219-6**

Date Collected: 10/30/23 14:35

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 14:29       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 14:29       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 13:54       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC           | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM            | EET MID | 11/03/23 13:54       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC           | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH            | EET MID | 11/07/23 09:51       |

**Client Sample ID: FS 43**

**Lab Sample ID: 880-35219-7**

Date Collected: 10/30/23 14:40

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL            | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR           | EET MID | 11/06/23 14:50       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM            | EET MID | 11/06/23 14:50       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM            | EET MID | 11/03/23 14:17       |

Eurofins Midland

### Lab Chronicle

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

**Client Sample ID: FS 43**

**Lab Sample ID: 880-35219-7**

Date Collected: 10/30/23 14:40

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC     | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM      | EET MID | 11/03/23 14:17       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC     | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH      | EET MID | 11/07/23 09:57       |

**Client Sample ID: SW 9**

**Lab Sample ID: 880-35219-8**

Date Collected: 10/31/23 13:00

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL      | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR     | EET MID | 11/06/23 15:10       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM      | EET MID | 11/06/23 15:10       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM      | EET MID | 11/03/23 14:39       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC     | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM      | EET MID | 11/03/23 14:39       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC     | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH      | EET MID | 11/07/23 10:03       |

**Client Sample ID: SW 10**

**Lab Sample ID: 880-35219-9**

Date Collected: 10/31/23 13:05

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL      | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR     | EET MID | 11/06/23 17:01       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM      | EET MID | 11/06/23 17:01       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM      | EET MID | 11/03/23 15:01       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC     | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM      | EET MID | 11/03/23 15:01       |
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC     | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH      | EET MID | 11/07/23 10:08       |

**Client Sample ID: FS 44**

**Lab Sample ID: 880-35219-10**

Date Collected: 10/31/23 14:00

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5035         |     |                 | 66217        | EL      | EET MID | 11/04/23 17:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 66220        | MNR     | EET MID | 11/06/23 17:21       |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 66396        | SM      | EET MID | 11/06/23 17:21       |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 66275        | SM      | EET MID | 11/03/23 15:44       |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 66134        | TKC     | EET MID | 11/03/23 09:36       |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 66125        | SM      | EET MID | 11/03/23 15:44       |

### Lab Chronicle

Client: Ensolum  
Project/Site: BFU Connector AW Booster Mobley Ranch Pipeline

Job ID: 880-35219-1  
SDG: 32.2907, -103.86159

**Client Sample ID: FS 44**

**Lab Sample ID: 880-35219-10**

Date Collected: 10/31/23 14:00

Matrix: Solid

Date Received: 11/02/23 10:51

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Soluble   | Leach      | DI Leach     |     |                 | 66079        | SMC     | EET MID | 11/02/23 13:01       |
| Soluble   | Analysis   | 300.0        |     | 1               | 66353        | CH      | EET MID | 11/07/23 10:14       |

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: BFU Connector AW Booster Mobley Ranch  
Pipeline

Job ID: 880-35219-1  
SDG: 32.2907, -103.86159

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-23-26      | 06-30-24        |

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

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

- 1
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### Method Summary

Client: Ensolum  
 Project/Site: BFU Connector AW Booster Mobley Ranch  
 Pipeline

Job ID: 880-35219-1  
 SDG: 32.2907, -103.86159

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

**Protocol References:**

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

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
Project/Site: BFU Connector AW Booster Mobley Ranch  
Pipeline

Job ID: 880-35219-1  
SDG: 32.2907, -103.86159

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-35219-1   | SW05             | Solid  | 10/30/23 14:05 | 11/02/23 10:51 | 0-2   |
| 880-35219-2   | SW06             | Solid  | 10/30/23 14:10 | 11/02/23 10:51 | 0-2   |
| 880-35219-3   | SW07             | Solid  | 10/30/23 14:15 | 11/02/23 10:51 | 0-2   |
| 880-35219-4   | SW08             | Solid  | 10/30/23 14:20 | 11/02/23 10:51 | 0-2   |
| 880-35219-5   | FS 41            | Solid  | 10/30/23 14:30 | 11/02/23 10:51 | 2     |
| 880-35219-6   | FS 42            | Solid  | 10/30/23 14:35 | 11/02/23 10:51 | 2     |
| 880-35219-7   | FS 43            | Solid  | 10/30/23 14:40 | 11/02/23 10:51 | 2     |
| 880-35219-8   | SW 9             | Solid  | 10/31/23 13:00 | 11/02/23 10:51 | 0-2   |
| 880-35219-9   | SW 10            | Solid  | 10/31/23 13:05 | 11/02/23 10:51 | 0-2   |
| 880-35219-10  | FS 44            | Solid  | 10/31/23 14:00 | 11/02/23 10:51 | 2     |

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- 14

# Chain of Custody

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

Environment Testing  
 Xenco



Work Or:

880-35219 Chain of Custody

www.xt

Project Manager: Ben Belli Bill to: (if different) Garnett Green  
 Company Name: Ensolvo LLC Company Name: XTE Energy  
 Address: 3122 National Parkway Address: 3104 E Greentree  
 City, State ZIP: Carlsbad, NM, 88220 City, State ZIP: Carlsbad, NM, 88220  
 Phone: 989-854-0852 Email: bbelli@ensolvom.com

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

### ANALYSIS REQUEST

Project Name: BU connector Boosted Midway Pump Around Pres. Code  
 Project Number: 36558015 Routine  Rush   
 Project Location: 322907-103.66159 Due Date:  
 Sampler's Name: Sarah Wong TAT starts the day received by the lab, if received by 4:30pm  
 PO #

SAMPLE RECEIPT  
 Samples Received Intact: Yes  No  Thermometer ID: TANMOO  
 Cooler Custody Seals: Yes  No  Correction Factor: -8.2  
 Sample Custody Seals: Yes  No  Temperature Reading: 9.4  
 Total Containers: 9.4

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Pres. Code | Preservative Codes  | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------|---|-----------------|
| SW03                  | S      | 10/30/23     | 14.05        | 0-2   | C         | 1         | X          |            | None NO   | cost center     |
| SW06                  | S      | 10/30/23     | 14.10        | 0-2   | C         | 1         | X          |            | Cool Cool   | 10817100        |
| SW07                  | S      | 10/30/23     | 14.15        | 0-2   | C         | 1         | X          |            | HCL HC  | Incident #'s    |
| SW08                  | S      | 10/30/23     | 14.20        | 0-2   | C         | 1         | X          |            | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | nAPP221315124   |
| FS41                  | S      | 10/30/23     | 14.30        | 2     | C         | 1         | X          |            | H <sub>3</sub> PO <sub>4</sub> HP                               | nAPP2316045220  |
| FS42                  | S      | 10/30/23     | 14.55        | 2     | C         | 1         | X          |            | NaHSO <sub>4</sub> NABIS  |                 |
| FS43                  | S      | 10/30/23     | 14.40        | 2     | C         | 1         | X          |            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                 |
| SW09                  | S      | 10/31/23     | 13.00        | 0-2   | C         | 1         | X          |            | Zn Acetate+NaOH Zn  |                 |
| SW10                  | S      | 10/31/23     | 13.05        | 0-2   | C         | 1         | X          |            | NaOH+Ascorbic Acid SAPC   |                 |
| FS44                  | S      | 10/31/23     | 14.00        | 2     | C         | 1         | X          |            |   | 2.8/25          |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Date/Time |
|-----------------------------|-------------------------|-----------|-----------|
| <u>[Signature]</u>          | <u>[Signature]</u>      | 10/31     | 11/2/23   |
|                             |                         | 2 16      | 1051      |
|                             |                         | 4         |           |
|                             |                         | 6         |           |



### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35219-1  
SDG Number: 32.2907, -103.86159

**Login Number: 35219**  
**List Number: 1**  
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

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

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## APPENDIX D

### NMOCD Correspondence

---

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Collins, Melanie](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Cc:** [Green, Garrett J](#); [Ben Belill](#); [Tacoma Morrissey](#); [Lambert, Tommee L](#); [DelawareSpills /SM](#)  
**Subject:** RE: [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)  
**Date:** Thursday, October 12, 2023 4:26:05 PM  
**Attachments:** [image001.png](#)

Some people who received this message don't often get email from [shelly.wells@emnrd.nm.gov](mailto:shelly.wells@emnrd.nm.gov). [Learn why this is important](#)

[\*\*EXTERNAL EMAIL\*\*]

Hi Melanie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. When reporting sampling at multiple locations it is required to provide the anticipated start time for each location. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520|[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Thursday, October 12, 2023 2:14 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [bbelill@ensolum.com](mailto:bbelill@ensolum.com); Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Lambert, Tommee L <[tommee.l.lambert@exxonmobil.com](mailto:tommee.l.lambert@exxonmobil.com)>; DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>  
**Subject:** [EXTERNAL] XTO - Sampling Notification (Week of 10/16/23 - 10/20/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of October 16,

2023.

Monday – October 16, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 18 TWR Sat Battery / nAPP2230551957

Tuesday - October 17, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Wednesday - October 18, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thursday - October 19, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229
- PLU 23 Dog Town Draw 154H / nAPP2316446382

Friday - October 20, 2023

- BEU Connector PW Booster / nAPP2213151424
- Mobley Ranch Pipeline / nAPP2316045229

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Collins, Melanie](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Hall, Brittany, EMNRD](#)  
**Cc:** [Green, Garrett J](#); [Ben Belill](#); [Lambert, Tommee L](#); [DelawareSpills /SM](#); [Tacoma Morrissey](#)  
**Subject:** RE: [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23  
**Date:** Wednesday, October 18, 2023 4:58:27 PM  
**Attachments:** [image001.png](#)

---

Some people who received this message don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[\*\*EXTERNAL EMAIL\*\*]

Hi Melanie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Collins, Melanie <melanie.collins@exxonmobil.com>  
**Sent:** Wednesday, October 18, 2023 3:16 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Cc:** Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>  
**Subject:** [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ok, Shelly, ask and you shall receive—haha! Let me know if you'd like them sent individually in the future, or if it is ok to send in bulk like this.

XTO plans to complete final sampling activities at the sites listed below for the week of October 23.2023 between 8 a.m. and 5 p.m. Please reach out with questions or concerns.

Thank you!

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | BEU Connector PW Booster      |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2213151424                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.23.23-10.27.23)    |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Mobley Ranch Pipeline         |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2316045229                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.23.23-10.27.23)    |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | JRU 91 Flowline               |
| Location                           | K-36-22S-30E; Eddy County, NM |
| Incident ID                        | NAB1515234386                 |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.23.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | NA                            |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|           |                |
|-----------|----------------|
| Site Name | Remuda 4-24-20 |
|-----------|----------------|

|                                    |                               |
|------------------------------------|-------------------------------|
| Location                           | A-04-24S-30E; Eddy County, NM |
| Incident ID                        | nAPP2233351770                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.23.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | NA                            |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | PLU CVX JV BS 008H            |
| Location                           | N-14-25S-30E; Eddy County, NM |
| Incident ID                        | nAB1602154960                 |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 1 Day 10.24.2023              |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Poker Lake Unit 315H          |
| Location                           | P-24-24S-30E; Eddy County, NM |
| Incident ID                        | nAPP2324233432                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 3 Days 10.25.23-10.27.23      |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | BLM                           |

Thank you,

*Melanie Collins*



Environmental Technician  
[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)  
432-556-3756

**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Collins, Melanie; spills@slo.state.nm.us](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Cc:** [Green, Garrett J](#); [Ben Bellil](#); [DelawareSpills /SM](#); [Lambert, Tommee L](#)  
**Subject:** RE: [EXTERNAL] XTO - Sampling Notification (Week of 10/30/23 - 11/3/23)  
**Date:** Wednesday, October 25, 2023 5:59:47 PM  
**Attachments:** [image003.png](#)

You don't often get email from [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov). [Learn why this is important](#)

**[\*\*EXTERNAL EMAIL\*\*]**

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Scott Rodgers** • Environmental Specialist  
 Environmental Bureau  
 EMNRD - Oil Conservation Division  
 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
 505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Wednesday, October 25, 2023 3:11 PM  
**To:** [spills@slo.state.nm.us](mailto:spills@slo.state.nm.us); Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [bbelill@ensolum.com](mailto:bbelill@ensolum.com); DelawareSpills /SM <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; Lambert, Tommee L <[tommee.l.lambert@exxonmobil.com](mailto:tommee.l.lambert@exxonmobil.com)>  
**Subject:** [EXTERNAL] XTO - Sampling Notification (Week of 10/30/23 - 11/3/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

XTO plans to complete final sampling activities at the sites listed below for the week of October 30, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | BEU Connector PW Booster      |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2213151424                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.30.23-11.3.23)     |

|                                |         |
|--------------------------------|---------|
| Env Consultant                 | Ensolum |
| Contractor                     | Tex Mex |
| Sampling Notification Required | Yes     |
| Surface Owner                  | SLO     |

|                                    |                               |
|------------------------------------|-------------------------------|
| Site Name                          | Mobley Ranch Pipeline         |
| Location                           | H-22-23S-30E; Eddy County, NM |
| Incident ID                        | nAPP2316045229                |
| Source & Description of Activities | Sampling                      |
| Expected Duration for Activities   | 5 Days (10.30.23-11.3.23)     |
| Env Consultant                     | Ensolum                       |
| Contractor                         | Tex Mex                       |
| Sampling Notification Required     | Yes                           |
| Surface Owner                      | SLO                           |

|                                    |                              |
|------------------------------------|------------------------------|
| Site Name                          | Hat Mesa 32-2                |
| Location                           | C-32-20S-33E; Lea County, NM |
| Incident ID                        | nAPP2316046257               |
| Source & Description of Activities | Sampling                     |
| Expected Duration for Activities   | 4 Days (10.31.23-11.3.23)    |
| Env Consultant                     | Ensolum                      |
| Contractor                         | Tex Mex                      |
| Sampling Notification Required     | Yes                          |
| Surface Owner                      | SLO                          |

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

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

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

QUESTIONS

Action 354044

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|                      |   |
|----------------------|---|
| <b>Prerequisites</b> |   |
| Incident ID (n#)     | nAPP2213151424                              |
| Incident Name        | NAPP2213151424 BEU CONNECTOR PW BOOSTER @ 0 |
| Incident Type        | Produced Water Release                      |
| Incident Status      | Reclamation Report Received                 |
| Incident Facility    | [fAPP2218240516] XTO PERMIAN MIDSTREAM NGGS |

|   |                          |
|---|--------------------------|
| <b>Location of Release Source</b>                     |                          |
| <i>Please answer all the questions in this group.</i> |                          |
| Site Name   | BEU CONNECTOR PW BOOSTER |
| Date Release Discovered                               | 04/27/2022               |
| Surface Owner   | State                    |

|  |                        |
|--|------------------------|
| <b>Incident Details</b>  |                        |
| <i>Please answer all the questions in this group.</i>  |                        |
| Incident Type  | Produced Water Release |
| Did this release result in a fire or is the result of a fire   | No                     |
| Did this release result in any injuries  | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

|   |   |
|---|---|
| <b>Nature and Volume of Release</b>   |   |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> |   |
| Crude Oil Released (bbls) Details   | Not answered.   |
| Produced Water Released (bbls) Details  | Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 296 BBL   Recovered: 0 BBL   Lost: 296 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l   | No  |
| Condensate Released (bbls) Details  | Not answered.   |
| Natural Gas Vented (Mcf) Details  | Not answered.   |
| Natural Gas Flared (Mcf) Details  | Not answered.   |
| Other Released Details  | Not answered.   |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)  | Flange on a hose  |



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

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

QUESTIONS, Page 2

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|  |  |
|--|--|
| <b>Nature and Volume of Release (continued)</b>  |  |
| Is this a gas only submission (i.e. only significant Mcf values reported)  | <b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>   |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC   | <b>Yes</b>   |
| Reasons why this would be considered a submission for a notification of a major release  | <b>From paragraph A. "Major release" determine using:<br/>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b> |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> |  |

**Initial Response**

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

|  |                      |
|--|----------------------|
| The source of the release has been stopped   | <b>True</b>          |
| The impacted area has been secured to protect human health and the environment                                     | <b>True</b>          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | <b>True</b>          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | <b>True</b>          |
| If all the actions described above have not been undertaken, explain why   | <i>Not answered.</i> |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Alan Romero<br>Title: Regulatory Analyst<br>Email: alan.romero1@exxonmobil.com<br>Date: 06/13/2024 |
|--|--|

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**Santa Fe, NM 87505**

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID: 5380   |
|   | Action Number: 354044   |
|   | Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|  |                                |
|--|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.)      |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water   | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Between 1 and 5 (mi.)          |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between 1 and 5 (mi.)          |
| An occupied permanent residence, school, hospital, institution, or church  | Greater than 5 (mi.)           |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between 1 and 5 (mi.)          |
| Any other fresh water well or spring   | Between 1 and 5 (mi.)          |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Between 1 and 5 (mi.)          |
| A subsurface mine  | Between 1 and 5 (mi.)          |
| An (non-karst) unstable area   | Between ½ and 1 (mi.)          |
| Categorize the risk of this well / site being in a karst geology   | Medium                         |
| A 100-year floodplain  | Between 1 and 5 (mi.)          |
| Did the release impact areas not on an exploration, development, production, or storage site                               | Yes                            |

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|  |     |
|--|-----|
| Requesting a remediation plan approval with this submission  | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> |     |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes |
| Was this release entirely contained within a lined containment area  | No  |

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

|   |     |
|---|-----|
| Chloride (EPA 300.0 or SM4500 Cl B)         | 565 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0   |
| GRO+DRO (EPA SW-846 Method 8015M)           | 0   |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0   |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0   |

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

|   |            |
|---|------------|
| On what estimated date will the remediation commence                        | 10/18/2024 |
| On what date will (or did) the final sampling or liner inspection occur     | 11/02/2023 |
| On what date will (or was) the remediation complete(d)                      | 12/13/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 27750      |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 4000       |
| What is the estimated surface area (in square feet) that will be remediated | 27750      |
| What is the estimated volume (in cubic yards) that will be remediated       | 4000       |

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

|   |  |
|---|--|
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes  |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510] |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                                  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | Not answered.                                  |
| (In Situ) Soil Vapor Extraction   | Not answered.                                  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | Not answered.                                  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | Not answered.                                  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | Not answered.                                  |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | Not answered.                                  |
| OTHER (Non-listed remedial process)   | Not answered.                                  |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Alan Romero<br>Title: Regulatory Analyst<br>Email: alan.romero1@exxonmobil.com<br>Date: 06/13/2024 |
|--|--|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

|  |    |
|--|----|
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |
|--|----|

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QUESTIONS, Page 6

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| <b>Sampling Event Information</b>   |                   |
|---|-------------------|
| Last sampling notification (C-141N) recorded  | <b>354049</b>     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | <b>11/02/2023</b> |
| What was the (estimated) number of samples that were to be gathered                             | <b>60</b>         |
| What was the sampling surface area in square feet   | <b>27750</b>      |

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

|  |   |
|--|---|
| Requesting a remediation closure approval with this submission   | <b>Yes</b>  |
| Have the lateral and vertical extents of contamination been fully delineated   | <b>Yes</b>  |
| Was this release entirely contained within a lined containment area  | <b>No</b>   |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion   | <b>Yes</b>  |
| What was the total surface area (in square feet) remediated  | <b>27750</b>  |
| What was the total volume (cubic yards) remediated   | <b>4000</b>   |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | <b>Yes</b>  |
| What was the total surface area (in square feet) reclaimed   | <b>27750</b>  |
| What was the total volume (in cubic yards) reclaimed   | <b>4000</b>   |
| Summarize any additional remediation activities not included by answers (above)  | Excavation activities were conducted at the Site in accordance with the approved Work Plan and Work Plan Update to address the two produced water releases at the Site. Laboratory analytical results for all excavation soil samples indicate all COC concentrations were compliant with the Closure Criteria and reclamation requirement. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions. |

*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 (in .pdf format) 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.*

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Alan Romero<br>Title: Regulatory Analyst<br>Email: alan.romero1@exxonmobil.com<br>Date: 06/13/2024 |
|--|--|

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QUESTIONS, Page 7

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380   |
|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

|  |       |
|--|-------|
| Requesting a reclamation approval with this submission                           | Yes   |
| What was the total reclamation surface area (in square feet) for this site       | 27750 |
| What was the total volume of replacement material (in cubic yards) for this site | 4000  |

*Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.*

|  |            |
|--|------------|
| Is the soil top layer complete and is it suitable material to establish vegetation | Yes        |
| On what (estimated) date will (or was) the reseeded commence(d)                    | 07/12/2024 |

|   |  |
|---|--|
| Summarize any additional reclamation activities not included by answers (above) | Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The NMSLO Sandy Site Seed Mixture will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. |
|---|--|

*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.*

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Alan Romero<br>Title: Regulatory Analyst<br>Email: alan.romero1@exxonmobil.com<br>Date: 06/13/2024 |
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QUESTIONS, Page 8

Action 354044

**QUESTIONS (continued)**

|   |  |
|---|--|
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|   | Action Number:<br>354044   |
|   | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|   |    |
|---|----|
| <b>Revegetation Report</b>  |    |
| <i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>   |    |
| Requesting a restoration complete approval with this submission   | No |
| <i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i> |    |



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CONDITIONS

Action 354044

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID: 5380   |
|   | Action Number: 354044   |
|   | Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**CONDITIONS**

| Created By     | Condition  | Condition Date |
|----------------|--|----------------|
| crystal.walker | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 6/25/2024      |