



February 16, 2024

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
Elvis Injection Line  
Incident Number NAPP2213642290  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on December 28, 2022, and approved by NMOCD on January 24, 2023. This *Closure Request* documents assessment, excavation, and soil sampling activities performed at the Elvis Injection Line (Site) to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2213642290.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (32.820368°N, 103.789382°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 4, 2022, corrosion from an injection line resulted in the release of approximately 30.12 barrels (bbls) of produced water into the surrounding pasture. Approximately 1 bbl of released fluids was recovered. The previous operator, ConocoPhillips Company (COP), immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 4, 2022, and submitted a Release Notification Form C-141 (Form C-141) on May 16, 2022. The release was assigned Incident Number NAPP2213642290.

The previous operator, COP, sold the asset to Maverick on June 1, 2022. Field activities at the Site were postponed until the sale of the Site was complete.

**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.

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Depth to groundwater at the Site is estimated to be greater than 106 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater well/soil boring with depth to groundwater data is soil boring DTW 01, located approximately 0.26 miles south of the Site. The soil boring was drilled during August 2023 to a depth of 106 feet bgs. A field geologist logged and described soil continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 106 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1.

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

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied 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.

## SUMMARY OF DELINEATION ACTIVITIES

Potholes PH01 through PH05 were advanced within the release extent to depths ranging from 4 feet to 14 feet bgs. Discrete delineation soil samples were collected from the potholes at depths ranging from 1-foot to 14 feet bgs. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Pothole PH03 was re-advanced on January 8, 2024, at the location of the original October 19, 2022, PH03 pothole location to complete additional delineation activities. No chloride impacted soil was identified at the location of pothole PH03 during January 2024.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05, were compliant with the Site Closure Criteria and provided vertical delineation to below the most stringent Table 1 Closure Criteria. However, laboratory analytical results and/or field screening results indicated chloride concentrations exceeded the reclamation requirement in the top four feet of the pasture release area. Laboratory analytical results are summarized on the attached Table 1.

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Based on the delineation activities, a *Work Plan* was submitted to the NMOCD on December 28, 2022, proposing excavation of chloride impacted soil in the top four feet of the pasture release extent and installation of a soil boring to confirm depth to water within 0.5 miles of the Site. The NMOCD approved the *Work Plan* with no conditions on January 24, 2023. Additional details regarding the delineation activities can be referenced in the December 28, 2022, *Work Plan*.

## EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between December 7, 2023, and January 8, 2024, Ensolum personnel were at the Site to oversee excavation of chloride impacted soil, as outlined in the approved *Work Plan*. To direct excavation activities, soil was field screened for chloride using Hach® chloride QuanTab® test strips. Excavation activities were performed using hand shovels, hydrovac, backhoe, loader, and transport vehicles. The excavation was completed to a depth of 4 feet bgs.

Following removal of impacted soil, 5-point composite samples were collected every 200 square feet from the sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW16 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. Based on the approved *Work Plan* and delineation soil sample analytical results, no floor samples were required, and sidewall samples required analysis of chloride only. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities. A photographic log is included as Appendix C.

Assessment soil samples SS01 through SS25 were collected within and around the excavation and/or release extent to confirm the extent of the surface release. The assessment soil samples were collected at depths ranging from 0.5 feet to 1-foot bgs. The assessment soil samples sample locations were mapped utilizing a handheld GPS and are presented on Figure 2 and Figure 3.

The excavation and assessment 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 Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride following Standard Method SM 4500.

The excavation measured approximately 6,000 square feet in areal extent. A total of approximately 1,500 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico.

Laboratory analytical results for excavation sidewall samples SW01 through SW16 indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements for the top four feet of the pasture area. Laboratory analytical results for assessment soil samples SS01 through SS25 indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

## RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final soil sample analytical results, Maverick proceeded with reclamation of the disturbed pasture area. The excavation was backfilled with locally procured soil and the Site was recontoured to match pre-existing conditions. The disturbed pasture area

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was seeded with a BLM approved seed mixture. Photographs of the reclaimed area are included in Appendix C.

Laboratory analytical results for assessment soil samples SS02 and SS04, collected on the active pad at a depth of 0.5 feet bgs, indicated chloride concentrations exceeded the reclamation requirement at concentrations of 880 mg/kg and 1,100 mg/kg, respectively. Subsequent soil samples collected at 1-foot bgs from the SS02 and SS04 sample locations provided vertical delineation to below the reclamation requirement. The soil exceeding reclamation requirements in the top four of the active pad will be addressed during final abandonment of the injection facility.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 4, 2022, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated chloride concentrations were compliant with the Site Closure Criteria and reclamation requirements. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on excavation and soil sampling activities completed as outlined in the approved *Work Plan*, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2213642290.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink, appearing to read "Ronni Hayes".

Ronni Hayes  
Staff Scientist

A handwritten signature in black ink, appearing to read "Aimee Cole".

Aimee Cole  
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources, LLC  
Bureau of Land Management

### Appendices:

|            |                                   |
|------------|-----------------------------------|
| Figure 1   | Site Location Map                 |
| Figure 2   | Delineation Soil Sample Locations |
| Figure 3   | Excavation Soil Sample Locations  |
| Table 1    | Soil Sample Analytical Results    |
| Appendix A | Referenced Well Records           |



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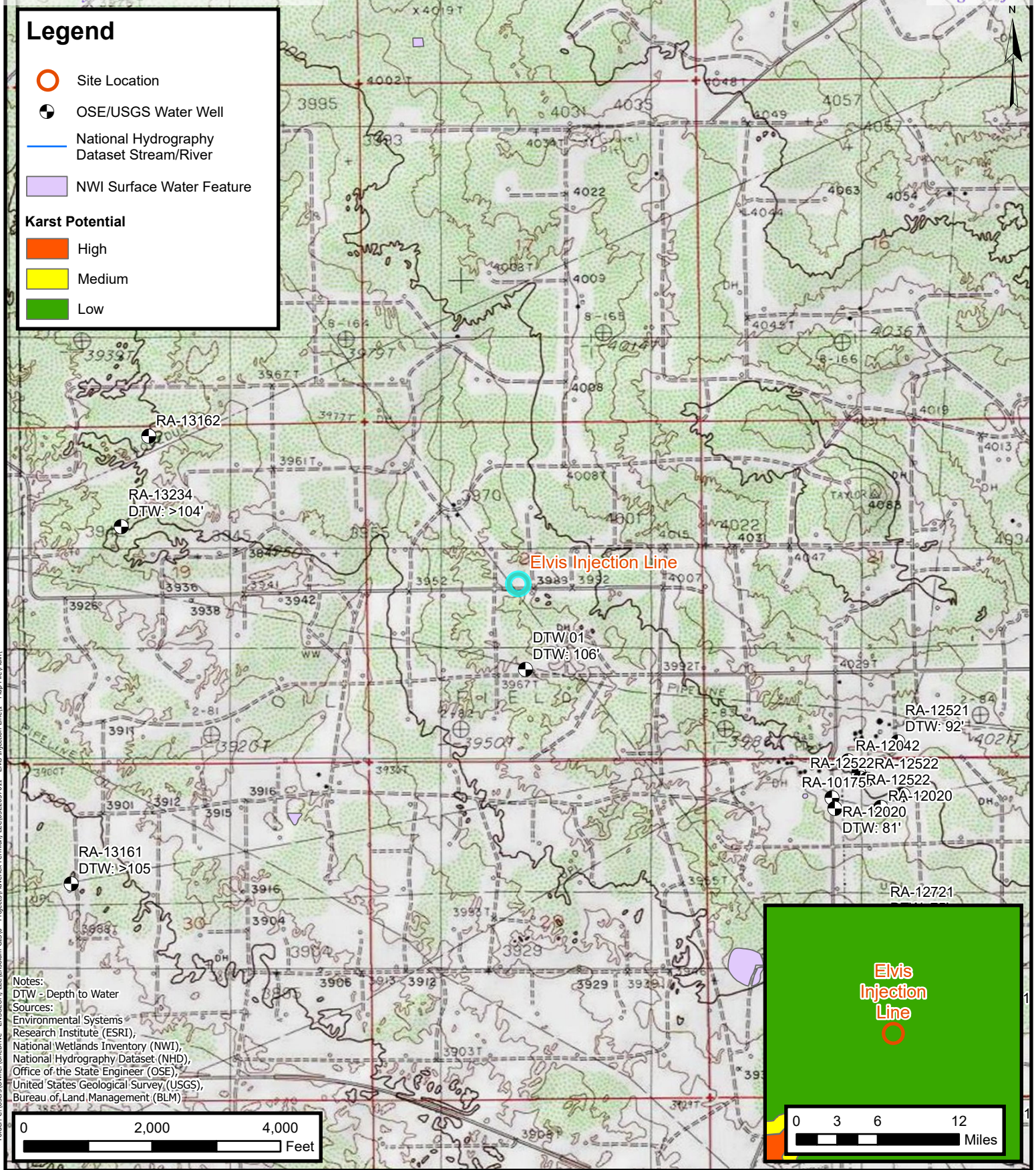
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Appendix B    Lithologic / Soil Sampling Logs  
Appendix C    Photographic Log  
Appendix D    Laboratory Analytical Reports & Chain-of-Custody Documentation  
Appendix E    NMOCD Notifications



FIGURES





**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

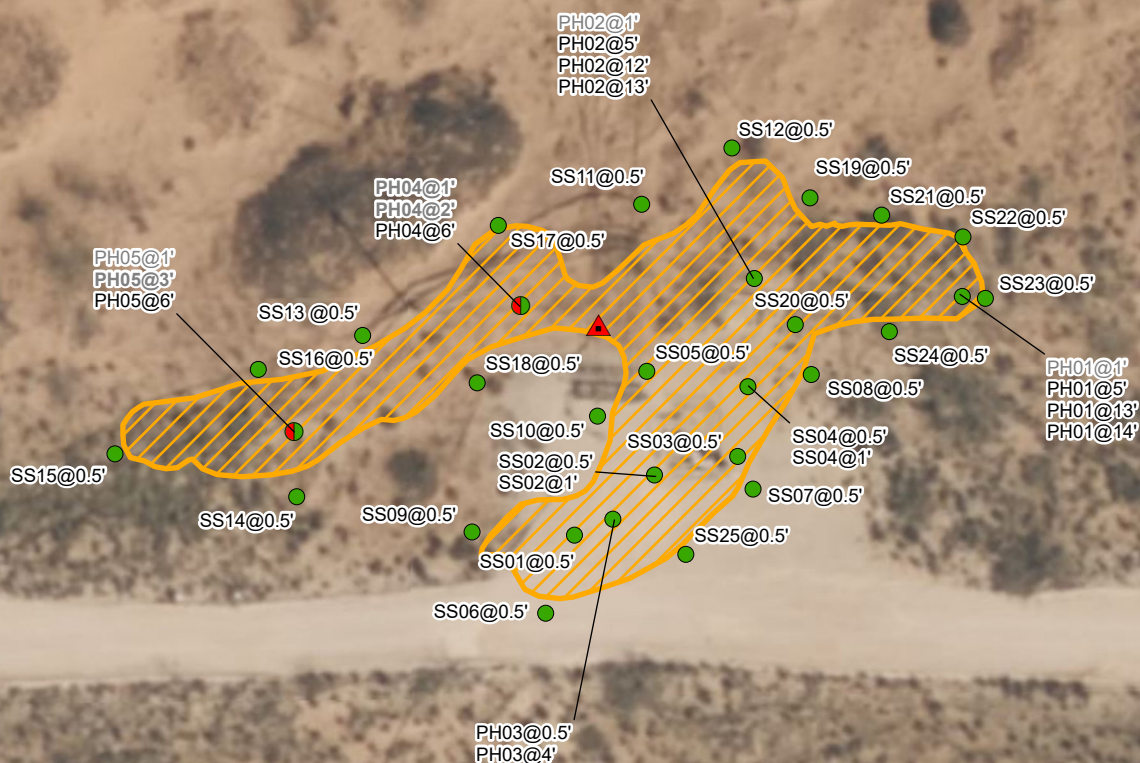
**Site Receptor Map**  
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Elvis Injection Line  
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Unit F Sec 20 T17S R32E  
Lea County, New Mexico

**FIGURE**  
**1**



## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Release Extent



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

0 12.5 25 50 75 100  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

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FIGURE  
 2



**Legend**

- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Pipeline/Line/Utility
- ▨ Excavation Extent

Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\Maverick Permian, LLC\03E2057011 - Elvis Injection Line\1 - Map File(Main)

Notes:  
Sample ID @ Depth Below Ground Surface.

0 5 10 20 30 40  
Feet

Sources: Environmental Systems Research Institute (ESRI)

## Excavation Soil Sample Locations

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**FIGURE**
**3**




TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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| Sample Designation                                    | Sample Date | 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>NMOCD Table I 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>                       |             |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| PH01*   | 10/19/2022  | 1                | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 242              |
| PH01  | 10/19/2022  | 5                | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 6,410            |
| PH01  | 10/19/2022  | 13               | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 787              |
| PH01  | 01/08/2024  | 14               | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 176              |
| PH02*   | 10/19/2022  | 1                | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 165              |
| PH02  | 10/19/2022  | 5                | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 8,760            |
| PH02  | 10/19/2022  | 12               | <0.00200        | <0.00399           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 1,120            |
| PH02  | 01/05/2024  | 13               | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| PH03  | 01/08/2024  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 576              |
| PH03  | 01/08/2024  | 4                | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 304              |
| PH04*   | 10/19/2022  | 1                | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>2,020</b>     |
| PH04*   | 10/19/2022  | 2                | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <b>1,560</b>     |
| PH04  | 10/19/2022  | 6                | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 162              |
| PH05*   | 10/19/2022  | 1                | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 403              |
| PH05*   | 10/19/2022  | 3                | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>4,530</b>     |
| PH05  | 10/19/2022  | 6                | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 431              |
| <b>Excavation Sidewall Soil Samples</b>               |             |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| SW01*   | 12/7/2023   | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| SW02*   | 12/7/2023   | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SW03*   | 12/12/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SW04*   | 12/12/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 160              |
| SW05*   | 12/14/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | <16.0            |
| SW06*   | 12/14/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 144              |
| SW07*   | 12/15/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 272              |

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Elvis Injection Line  
 Maverick Permian, LLC  
 Lea County, New Mexico

| Sample Designation                             | Sample Date | 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           |
| SW08*  | 12/18/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SW09*  | 12/20/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SW10*  | 12/22/2023  | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SW11*  | 1/4/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| SW12*  | 1/5/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 352              |
| SW13*  | 1/5/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 144              |
| SW14*  | 1/5/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 272              |
| SW15*  | 1/8/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 64.0             |
| SW16*  | 1/8/2024    | 0-4              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 176              |
| Assessment Soil Samples                        |             |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01   | 12/12/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| SS02   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 880              |
| SS02   | 1/4/2023    | 1                | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 240              |
| SS03   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 144              |
| SS04   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 1,100            |
| SS04   | 1/4/2024    | 1                | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 96               |
| SS05   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 128              |
| SS06   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SS07   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 176              |
| SS08   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 96.0             |
| SS09*  | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SS10   | 12/13/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| SS11*  | 12/18/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS12*  | 12/18/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS13*  | 12/18/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 64.0             |

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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| Sample Designation                             | Sample Date | 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           |
| SS14*  | 12/18/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS15*  | 12/18/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS16*  | 12/21/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SS17*  | 12/21/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS18*  | 12/21/2023  | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 16.0             |
| SS19*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SS20*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |
| SS21*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | <16.0            |
| SS22*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | <16.0            |
| SS23*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 32.0             |
| SS24*  | 1/4/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 64.0             |
| SS25   | 1/8/2024    | 0.5              | NA              | NA                 | NA              | NA              | NA              | NA              | NA                | 48.0             |

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

**Grey** text represents samples that have been excavated

\* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.


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



## APPENDIX A

### Referenced Well Records

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|  <b>ENSOLUM</b>   |                |             |          |           |                       |                |                  | Sample Name: DTW 01  |  | Date: 08/28/2023    |  |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|---------------------|--|
|  |                |             |          |           |                       |                |                  | Site Name: MCA 266   |  |                     |  |
|  |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290  |  |                     |  |
|  |                |             |          |           |                       |                |                  | Job Number: 03D2057011   |  |                     |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>  |                |             |          |           |                       |                |                  | Logged By: Julianna Falcomata  |  | Method: Hollow Stem |  |
|  |                |             |          |           |                       |                |                  | Hole Diameter: 5"  |  | Total Depth: 106'   |  |
| Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 09/08/2023 the soil boring was plugged and abandoned using hydrated bentonite chips. |                |             |          |           |                       |                |                  |  |  |                     |  |
| Moisture Content   | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 10             | SP-SM            | (10') SAND: fine grained silty sand, poorly graded, tan to medium brown, non plastic, non cohesive, no odor.                                   |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 20             | SP-SM            | (20') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, tan to reddish brown, non plastic, non cohesive, no odor.      |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 30             | SP-SM            | (30') SAND: fine grained silty sand, moderate amounts small to medium gravel, poorly graded, reddish brown, non plastic, non cohesive, no      |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 40             | SP-SM            | (40') SAND: SAA with trace amounts of CHT like material  |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 50             | SP-SM            | (50') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, reddish brown, non plastic, non cohesive, no odor.             |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 60             | SP-SM            | (60') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.              |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 70             | SP-SM            | (70') SAND: fine grained silty sand, trace amounts small gravel, poorly graded, medium brown to dark grey, non plastic, non cohesive, no odor. |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 80             | GP-GM            | (80') GRAVEL: medium grained, trace amount silty sand, poorly graded, dark grey to light grey, non plastic, non cohesive, no odor.             |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 90             | GP-GM            | (90') GRAVEL: medium grained, trace amount silty sand, poorly graded, light grey to medium brown, non plastic, non cohesive, no odor.          |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 100            | SP-SM            | (100') SAND: fine grained, trace amount small to medium gravel, poorly graded, medium brown, non plastic, non cohesive, no odor.               |  |                     |  |
| Dry  | -              | -           | N        | -         | -                     | 106            | SP-SM            | (106') SAND: fine grained, trace amount small to medium gravel, poorly graded, dark brown, non plastic, non cohesive, no odor.                 |  |                     |  |
| <b>Total Depth @ 106 feet bgs</b>  |                |             |          |           |                       |                |                  |  |  |                     |  |



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

STATE ENGINEER OFFICE  
ROSWELL, NEW MEXICO

2013 OCT -7 P 12: 04


|   |   |                             |   |   |   |   |                                |                    |
|---|---|-----------------------------|---|---|---|---|--------------------------------|--------------------|
| 1. GENERAL AND WELL LOCATION  | OSE POD NUMBER (WELL NUMBER)<br>MW-21 <b>POD1</b>   |                             |   |   | OSE FILE NUMBER(S)<br>RA-12020                    |   |                                |                    |
|   | WELL OWNER NAME(S)<br>Phillips 66 Company   |                             |   |   | PHONE (OPTIONAL)                                  |   |                                |                    |
|   | WELL OWNER MAILING ADDRESS<br>420 S. Keller (1708-02 Phillips Bldg.)  |                             |   |   | CITY<br>Bartlesville                              |   | STATE<br>OK                    | ZIP<br>74004       |
|   | WELL LOCATION (FROM GPS)  | DEGREES<br>LATITUDE 32      | MINUTES<br>48                             | SECONDS<br>38.1   | N   | * ACCURACY REQUIRED: ONE TENTH OF A SECOND                    |                                |                    |
|   | LONGITUDE 103   | 46                          | 24.4                                      | W   | * DATUM REQUIRED: WGS 84                          |   |                                |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>Maljamar Rd (cr 126) Gas Plant |   |                             |   |   |   |   |                                |                    |
| 2. DRILLING & CASING INFORMATION  | LICENSE NUMBER<br>WD-1456   |                             | NAME OF LICENSED DRILLER<br>John W. White |   |   | NAME OF WELL DRILLING COMPANY<br>White Drilling Company, Inc. |                                |                    |
|   | DRILLING STARTED<br>9/24/2013   | DRILLING ENDED<br>9/25/2013 | DEPTH OF COMPLETED WELL (FT)<br>120.0     | BORE HOLE DEPTH (FT)  | DEPTH WATER FIRST ENCOUNTERED (FT)<br>81.5        |   |                                |                    |
|   | COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)                        |                             |   |   | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>81.5 |   |                                |                    |
|   | DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:  |                             |   |   |   |   |                                |                    |
|   | DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY: |                             |   |   |   |   |                                |                    |
|   | DEPTH (feet bgl)  |                             | BORE HOLE DIAM (inches)                   | CASING MATERIAL AND/OR GRADE<br>(include each casing string, and note sections of screen) | CASING CONNECTION TYPE                            | CASING INSIDE DIAM. (inches)                                  | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|   | FROM  | TO                          |   |   |   |   |                                |                    |
|   | 0.0   | 75.0                        | 6.0                                       | Sch. 40 PVC Riser   | 4.0 TPI   | 2.0   | 1/4"                           |                    |
|   | 75.0  | 110.0                       | 6.0                                       | Sch. 40 PVC Screen  | 4.0 TPI   | 2.0   | 1/4"                           | .020               |
|   |   |                             |   |   |   |   |                                |                    |
|   |   |                             |   |   |   |   |                                |                    |
|   |   |                             |   |   |   |   |                                |                    |
|   |   |                             |   |   |   |   |                                |                    |
| 3. ANNULAR MATERIAL   | 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                          |   |   |   |   |                                |                    |
|   | 120.0   | 110.0                       | 6.0                                       | Bentonite grout   | 3 sacks   | Hand Mix  |                                |                    |
|   | 110.0   | 71.0                        | 6.0                                       | 8/16 Sand   | 14 sacks  | Hand Mix  |                                |                    |
|   | 71.0  | 19.0                        | 6.0                                       | Bentonite Pellets   | 19 sacks  | Hand Mix  |                                |                    |
|   | 19.0  | 0.0                         | 6.0                                       | Cement  | 3.7943  | Hand Mix  |                                |                    |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

|                                     |                        |                             |
|-------------------------------------|------------------------|-----------------------------|
| FILE NUMBER<br><b>RA-12020</b>      | POD NUMBER<br><b>1</b> | TRN NUMBER<br><b>534328</b> |
| LOCATION<br><b>EXPL (mon. well)</b> | <b>175.32E.28.122</b>  | PAGE 1 OF 2                 |



| 4. HYDROGEOLOGIC LOG OF WELL   | DEPTH (feet bgl)  |   | THICKNESS<br>(feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER<br>BEARING?<br>(YES / NO)                            | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|--|---|---|---------------------|--|--|--|
|  | FROM  | TO  |                     |  |  |  |
|  | 0.0   | 4.0   | 4.0                 | Reddish brown sand   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 4.0   | 8.0   | 4.0                 | Reddish sandy clay   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 8.0   | 11.0  | 3.0                 | Caliche  | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 11.0  | 20.0  | 9.0                 | Reddish sand/sandstone   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 20.0  | 28.0  | 8.0                 | Light brown sand w/gravel mixed  | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 28.0  | 34.0  | 6.0                 | Brown sand   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 34.0  | 42.0  | 8.0                 | Reddish brown sand/sandstone   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 42.0  | 53.0  | 11.0                | Dark brown sandstone   | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 53.0  | 58.0  | 5.0                 | Grayish brown sandstone  | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 58.0  | 70.0  | 12.0                | Yellowish brown sandstone  | <input type="radio"/> Y <input checked="" type="radio"/> N |  |
|  | 70.0  | 111.0   | 41.0                | Layers of brown, greenish, and reddish sand/sandstone  | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
|  | 111.0   | 120.0   | 9.0                 | Dark reddish brown silty clayey shale  | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
|  |   |   |                     |  | <input type="radio"/> Y <input type="radio"/> N            |  |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP                  |   |   |                     |  | TOTAL ESTIMATED<br>WELL YIELD (gpm):                       |  |
| <input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY: |   |   |                     |  |  |  |
| 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:  |   |                     |  |  |  |
|  | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>William B. Atkins  |   |                     |  |  |  |
| 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 20 DAYS AFTER COMPLETION OF WELL DRILLING: |   |                     |  |  |  |
|  | <br>SIGNATURE OF DRILLER / PRINT SIGNEE NAME   |   |                     |  |  | 10-1-13<br>DATE  |

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)


|             |            |             |
|-------------|------------|-------------|
| FILE NUMBER | POD NUMBER | TRN NUMBER  |
| LOCATION    |            | PAGE 2 OF 2 |





## APPENDIX B


### Lithologic Soil Sampling Logs

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|    |                |             |          |           |                       |                |                  | Sample Name: PH01   |  | Date: 1/8/24     |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011  |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Ronni Hayes  |  | Method: Backhoe  |  |
| Coordinates: 32.8204559, -103.7890876   |                |             |          |           |                       |                |                  | Hole Diameter: 3'   |  | Total Depth: 14' |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |   |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                  |  |
| D   | 207            | 0.0         | N        | PH01      | 1                     | 1              | SPSM             | SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor. |  |                  |  |
| D   | 1,646          | 0.2         | N        |           |                       | 2              | SPSM             | SAA   |  |                  |  |
| D   | 1,646          | 0.4         | N        |           |                       | 3              | SPSM             | SAA   |  |                  |  |
| D   | 1,316          | 0.5         | N        |           |                       | 4              | SPSM             | SAA   |  |                  |  |
| D   | 1,290          | 0.2         | N        | PH01A     | 5                     | 5              | SPSM             | SAA   |  |                  |  |
| D   | 3,589          | 0.5         | N        |           |                       | 6              | SPSM             | SAA   |  |                  |  |
| D   |                |             | N        |           |                       | 7              | SPSM             | SAA   |  |                  |  |
| D   |                |             | N        |           |                       | 8              | SPSM             | SAA   |  |                  |  |
| D   | 10,046         | 0.2         | N        |           |                       | 9              | SPSM             | SAA   |  |                  |  |
| D   |                |             | N        |           |                       | 10             | SPSM             | SAA   |  |                  |  |
| D   |                |             | N        |           |                       | 11             | SPSM             | SAA, more clay  |  |                  |  |
| D   | 526            | 0.1         | N        |           |                       | 12             | SPSC             | SAA, some plant matter  |  |                  |  |
| D   | 526            | 0.1         | N        | PH01B     | 13                    | 13             | SPSC             | SAA, more clay, no plant matter   |  |                  |  |
| D   | 201.6          |             | N        | PH01      | 14                    | 14             | SPSC             | SAA   |  |                  |  |
| TD @ 14 FEET BGS  |                |             |          |           |                       |                |                  |   |  |                  |  |


|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: PH02   |  | Date: 1/5/24         |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|----------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line   |  |                      |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290   |  |                      |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011  |  |                      |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Ronni Hayes  |  | Method: Hand Auger   |  |
| Coordinates: 32.8204706, -103.7892647   |                |             |          |           |                       |                |                  | Hole Diameter: 4"   |  | Total Depth: 13' bgs |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |   |  |                      |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                      |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                      |  |
| D   | 207            | 0.2         | N        | PH02      | 1                     | 1              | SPSM             | SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor. |  |                      |  |
| D   | 280            | 0.2         | N        |           |                       | 2              | SPSM             | SAA   |  |                      |  |
| D   | 1,036          | 0.4         | N        |           |                       | 3              | SPSM             | SAA   |  |                      |  |
| D   | 1,316          | 0.4         | N        |           |                       | 4              | SPSM             | SAA   |  |                      |  |
| D   | 9,290          | 0.5         | N        | PH02A     | 5                     | 5              | SPSM             | SAA   |  |                      |  |
| D   | 7,341          | 0.5         | N        |           |                       | 6              | SPSM             | SAA, more clay  |  |                      |  |
| D   | 4,860          | 0.9         | N        |           |                       | 7              | SPSM             | SAA   |  |                      |  |
| D   | 7,341          | 0.3         | N        |           |                       | 8              | CCHE             | CALICHE   |  |                      |  |
| D   |                |             | N        |           |                       | 9              | CCHE             | SAA   |  |                      |  |
| D   |                |             | N        |           |                       | 10             | CCHE             | SAA   |  |                      |  |
| D   | 1,215          | 0.1         | N        |           |                       | 11             | CCHE             | SAA   |  |                      |  |
| D   | 1,215          | 0.1         | N        | PH02B     | 12                    | 12             | CCHE             | SAA   |  |                      |  |
| D   | <198.6         |             | N        | PH02      | 13                    | 13             | CCHE             | SAA   |  |                      |  |
|   |                |             |          |           |                       |                |                  | TD at 13 ft bgs   |  |                      |  |


|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: PH03   |  | 1/8/2024            |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|---------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line   |  |                     |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290   |  |                     |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011  |  |                     |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: RH   |  | Method: Mini-ex     |  |
| Coordinates: 32.8202996, -103.7893864   |                |             |          |           |                       |                |                  | Hole Diameter: 3'   |  | Total Depth: 4' bgs |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |   |  |                     |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                     |  |
| Dry   | 649.6          | -           | N        | PH03      | 0.5                   | 0              | CCHE             | CALICHE, well pad   |  |                     |  |
| Dry   | 649.6          | -           | N        |           |                       | 0.5            | SAA              | poorly graded, no staining, no odor.  |  |                     |  |
| Dry   | 319            | -           | N        |           |                       | 1              | SAA              | SAA   |  |                     |  |
| Dry   | 319            | -           | N        |           |                       | 2              | SPSM             | SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor. |  |                     |  |
| Dry   | 168            | -           | N        |           |                       | 3              | SAA              | SAA   |  |                     |  |
| Dry   | 364            | -           | N        | PH03      | 4                     | 4              | SAA              | SAA   |  |                     |  |
|   |                |             |          |           |                       |                |                  | TD at 4 ft bgs  |  |                     |  |

|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: PH04   |  | Date: 10/19/2022   |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011  |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: CS/PV  |  | Method: Hand Auger |  |
| Coordinates: 32.8204537, -103.7894618   |                |             |          |           |                       |                |                  | Hole Diameter: 4"   |  | Total Depth: 10'   |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |   |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                    |  |
| D   | 2,329          | 0.3         | N        | PH04      | 1                     | 1              | SPSM             | SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor. |  |                    |  |
| D   | 1,764          | 0.3         | N        | PH04A     | 2                     | 2              | SPSM             | SAA   |  |                    |  |
| D   | 789            | 0.4         | N        |           |                       | 3              | SPSM             | SAA   |  |                    |  |
| D   | 1,892          | 0.2         | N        |           |                       | 4              | SPSM             | SAA   |  |                    |  |
| D   |                |             | N        |           |                       | 5              | SPSM             | SAA   |  |                    |  |
| D   | <168           | 0.3         | N        | PH04B     | 6                     | 6              | SPSM             | SAA   |  |                    |  |
| D   |                |             | N        |           |                       | 7              | SPSM             | SAA   |  |                    |  |
| D   | <168           | 0.5         | N        |           |                       | 8              | CCHE             | CALICHE with sand.  |  |                    |  |
| D   |                |             | N        |           |                       | 9              | CCHE             | SAA   |  |                    |  |
| D   | <168           | 0.1         | N        |           |                       | 10             | CCHE             | SAA   |  |                    |  |
| TD @ 10 FEET BGS  |                |             |          |           |                       |                |                  |   |  |                    |  |



|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: PH05   |  | Date: 10/19/2022   |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011  |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: CS/PV  |  | Method: Hand Auger |  |
| Coordinates: 32.8203646, -103.7896556   |                |             |          |           |                       |                |                  | Hole Diameter: 4"   |  | Total Depth: 10'   |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |   |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                    |  |
| D   | 414            | 0.2         | N        | PH05      | 1                     | 1              | SPSM             | SAND, reddish brown, medium to fine grain, poorly graded, no staining, no odor. |  |                    |  |
| D   | 280            | 0.3         | N        |           |                       | 2              | SPSM             | SAA   |  |                    |  |
| D   | 5,756          | 0.3         | N        | PH05A     | 3                     | 3              | SPSM             | SAA   |  |                    |  |
| D   | 929            | 0.3         | N        |           |                       | 4              | SPSM             | SAA   |  |                    |  |
| D   |                |             | N        |           |                       | 5              | SPSM             | SAA   |  |                    |  |
| D   | 526            | 0.3         | N        | PH05B     | 6                     | 6              | SPSM             | SAA   |  |                    |  |
| D   |                |             | N        |           |                       | 7              | SPSM             | SAA   |  |                    |  |
| D   | 856            | 0.3         | N        |           |                       | 8              | SPSM             | SAA   |  |                    |  |
| D   |                |             | N        |           |                       | 9              | SPSM             | SAA   |  |                    |  |
| D   | 364            | 0.6         | N        | PH05C     | 10                    | 10             | SPSM             | SAA   |  |                    |  |
| TD @ 10 FEET BGS  |                |             |          |           |                       |                |                  |   |  |                    |  |

|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: SS02                                      |  | Date: 1/4/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line                        |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290                        |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011                                 |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: RH  |  | Method: Hand Auger |  |
| Coordinates: 32.8202780, -103.7893770   |                |             |          |           |                       |                |                  | Hole Diameter: 4"                                      |  | Total Depth: 1'    |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                    |  |
| D   | 1,108          |             | N        | SS02      | 0.5                   | 0.5            | CCHE             | CALICHE, well pad poorly graded, no staining, no odor. |  |                    |  |
| D   | 241            |             | N        | SS02      | 1                     | 1              | SAA              | SAA<br>TD at 1 ft bgs                                  |  |                    |  |

|  <b>ENSOLUM</b>  |                |             |          |           |                       |                |                  | Sample Name: SS04                                      |  | Date: 1/4/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Elvis Injection Line                        |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: NAPP2213642290                        |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03D2057011                                 |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: RH  |  | Method: Hand Auger |  |
| Coordinates: 32.8204070, -103.7892409   |                |             |          |           |                       |                |                  | Hole Diameter: 4"                                      |  | Total Depth: 1'    |  |
| 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. 40% correction factor included. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                    |  |
| D   | 1,204          |             | N        | SS04      | 0.5                   | 0.5            | CCHE             | CALICHE, well pad poorly graded, no staining, no odor. |  |                    |  |
| D   | <198.6         |             | N        | SS04      | 1                     | 1              | SAA              | SAA<br>TD at 1 ft bgs                                  |  |                    |  |



## APPENDIX C

### Photographic Log

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**Photographic Log**  
Maverick Permian, LLC  
Elvis Injection Line  
Incident Number NAPP2213642290



Photograph: 1 Date: 5/5/2022  
Description: Soil staining in release footprint  
View: Northwest

Photograph: 2 Date: 10/19/2022  
Description: Delineation Activities  
View: East



Photograph: 3 Date: 12/13/2023  
Description: Excavation activities  
View: Northwest

Photograph: 4 Date: 12/22/2023  
Description: Excavation activities  
View: West





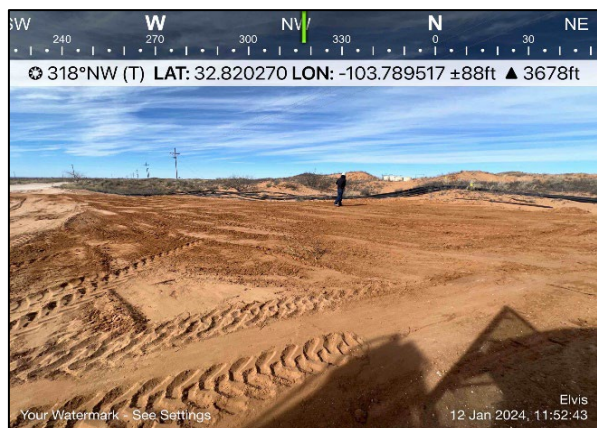
**Photographic Log**  
Maverick Permian, LLC  
Elvis Injection Line  
Incident Number NAPP2213642290



Photograph: 5 Date: 1/5/2024  
Description: Excavation activities  
View: West



Photograph: 6 Date: 1/8/2024  
Description: Excavation activities  
View: North



Photograph: 7 Date: 1/12/2024  
Description: Backfilled excavation  
View: Northwest



Photograph: 8 Date: 1/12/2024  
Description: Backfilled excavation  
View: North



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-3238-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elavis Injection Line

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

10/26/2022 9:08:04 AM

Jessica Kramer, Project Manager  
(432)704-5440

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

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

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

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

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



Client: Ensolum  
Project/Site: Elavis Injection Line

Laboratory Job ID: 890-3238-1  
SDG: 03D2057011

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Definitions/Glossary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Qualifiers

GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD 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                                    |
|-----------|--|
| 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: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Job ID: 890-3238-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3238-1

Receipt

The samples were received on 10/20/2022 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH04 (890-3238-1), PH04 (890-3238-2) and PH04 (890-3238-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37510 and analytical batch 880-37597 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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## Client Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Client Sample ID: PH04

Lab Sample ID: 890-3238-1

Date Collected: 10/19/22 10:00

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 04:42 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 04:42 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 04:42 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 12:22 | 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 |   | 10/21/22 13:46 | 10/22/22 03:27 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 10/21/22 13:46 | 10/22/22 03:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 10/21/22 13:46 | 10/22/22 03:27 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 75        |           | 70 - 130 | 10/21/22 13:46 | 10/22/22 03:27 | 1       |
| o-Terphenyl    | 86        |           | 70 - 130 | 10/21/22 13:46 | 10/22/22 03:27 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2020   |           | 24.8 | mg/Kg |   |          | 10/23/22 17:59 | 5       |

Client Sample ID: PH04

Lab Sample ID: 890-3238-2

Date Collected: 10/19/22 10:15

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:03 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:03 | 1       |

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Client Sample ID: PH04

Lab Sample ID: 890-3238-2

Date Collected: 10/19/22 10:15

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:03 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 12:22 | 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 |   | 10/21/22 13:46 | 10/22/22 03:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 03:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 03:49 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 03:49 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 03:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1560   |           | 24.8 | mg/Kg |   |          | 10/23/22 18:04 | 5       |

Client Sample ID: PH04

Lab Sample ID: 890-3238-3

Date Collected: 10/19/22 10:30

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 6

## 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 |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:23 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 12:22 | 1       |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Client Sample ID: PH04  
Date Collected: 10/19/22 10:30  
Date Received: 10/20/22 09:38  
Sample Depth: 6

Lab Sample ID: 890-3238-3  
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                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:11 | 1       |  |
| Diesel Range Organics (Over C10-C28)                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:11 | 1       |  |
| Oil Range Organics (Over C28-C36)                         | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:11 | 1       |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |
| 1-Chlorooctane  | 83        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:11 | 1       |  |
| o-Terphenyl   | 99        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:11 | 1       |  |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 162    |           | 5.00 | mg/Kg |   |          | 10/23/22 18:09 | 1       |  |

## Surrogate Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-20579-A-11-C MS               | Matrix Spike           | 89   | 99                |
| 880-20579-A-11-D MSD              | Matrix Spike Duplicate | 97   | 105               |
| 890-3238-1                        | PH04                   | 115  | 92                |
| 890-3238-2                        | PH04                   | 101  | 99                |
| 890-3238-3                        | PH04                   | 95   | 99                |
| LCS 880-37678/1-A                 | Lab Control Sample     | 92   | 101               |
| LCSD 880-37678/2-A                | Lab Control Sample Dup | 94   | 96                |
| MB 880-37517/5-A                  | Method Blank           | 109  | 105               |
| MB 880-37678/5-A                  | Method Blank           | 108  | 106               |
| <b>Surrogate Legend</b>           |                        |  |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |  |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3237-A-1-B MS       | Matrix Spike           | 84   | 91                |
| 890-3237-A-1-C MSD      | Matrix Spike Duplicate | 83   | 89                |
| 890-3238-1              | PH04                   | 75   | 86                |
| 890-3238-2              | PH04                   | 94   | 105               |
| 890-3238-3              | PH04                   | 83   | 99                |
| LCS 880-37501/2-A       | Lab Control Sample     | 97   | 120               |
| LCSD 880-37501/3-A      | Lab Control Sample Dup | 96   | 116               |
| MB 880-37501/1-A        | Method Blank           | 90   | 108               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

| Lab Sample ID: MB 880-37517/5-A |              |              |          |       |   | Client Sample ID: Method Blank |                |         |
|---------------------------------|--------------|--------------|----------|-------|---|--------------------------------|----------------|---------|
| Matrix: Solid                   |              |              |          |       |   | Prep Type: Total/NA            |                |         |
| Analysis Batch: 37728           |              |              |          |       |   | Prep Batch: 37517              |                |         |
| Analyte                         | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared                       | Analyzed       | Dil Fac |
| Benzene                         | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| Toluene                         | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| Ethylbenzene                    | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| m-Xylene & p-Xylene             | <0.00400     | U            | 0.00400  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| o-Xylene                        | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| Xylenes, Total                  | <0.00400     | U            | 0.00400  | mg/Kg |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| Surrogate                       | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared                       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)     | 109          |              | 70 - 130 |       |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |
| 1,4-Difluorobenzene (Surr)      | 105          |              | 70 - 130 |       |   | 10/21/22 14:22                 | 10/25/22 11:26 | 1       |

| Lab Sample ID: MB 880-37678/5-A |              |              |          |       |   | Client Sample ID: Method Blank |                |         |
|---------------------------------|--------------|--------------|----------|-------|---|--------------------------------|----------------|---------|
| Matrix: Solid                   |              |              |          |       |   | Prep Type: Total/NA            |                |         |
| Analysis Batch: 37728           |              |              |          |       |   | Prep Batch: 37678              |                |         |
| Analyte                         | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared                       | Analyzed       | Dil Fac |
| Benzene                         | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| Toluene                         | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| Ethylbenzene                    | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| m-Xylene & p-Xylene             | <0.00400     | U            | 0.00400  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| o-Xylene                        | <0.00200     | U            | 0.00200  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| Xylenes, Total                  | <0.00400     | U            | 0.00400  | mg/Kg |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| Surrogate                       | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared                       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)     | 108          |              | 70 - 130 |       |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |
| 1,4-Difluorobenzene (Surr)      | 106          |              | 70 - 130 |       |   | 10/24/22 13:20                 | 10/25/22 23:00 | 1       |

| Lab Sample ID: LCS 880-37678/1-A |               |               |               |       |   | Client Sample ID: Lab Control Sample |             |  |
|----------------------------------|---------------|---------------|---------------|-------|---|--------------------------------------|-------------|--|
| Matrix: Solid                    |               |               |               |       |   | Prep Type: Total/NA                  |             |  |
| Analysis Batch: 37728            |               |               |               |       |   | Prep Batch: 37678                    |             |  |
| Analyte                          | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec                                 | %Rec Limits |  |
| Benzene                          | 0.100         | 0.1004        |               | mg/Kg |   | 100                                  | 70 - 130    |  |
| Toluene                          | 0.100         | 0.1057        |               | mg/Kg |   | 106                                  | 70 - 130    |  |
| Ethylbenzene                     | 0.100         | 0.09437       |               | mg/Kg |   | 94                                   | 70 - 130    |  |
| m-Xylene & p-Xylene              | 0.200         | 0.1930        |               | mg/Kg |   | 96                                   | 70 - 130    |  |
| o-Xylene                         | 0.100         | 0.1024        |               | mg/Kg |   | 102                                  | 70 - 130    |  |
| Surrogate                        | LCS %Recovery | LCS Qualifier | Limits        |       |   |                                      |             |  |
| 4-Bromofluorobenzene (Surr)      | 92            |               | 70 - 130      |       |   |                                      |             |  |
| 1,4-Difluorobenzene (Surr)       | 101           |               | 70 - 130      |       |   |                                      |             |  |

| Lab Sample ID: LCSD 880-37678/2-A |             |             |                |       |   | Client Sample ID: Lab Control Sample Dup |             |           |
|-----------------------------------|-------------|-------------|----------------|-------|---|--|-------------|-----------|
| Matrix: Solid                     |             |             |                |       |   | Prep Type: Total/NA                      |             |           |
| Analysis Batch: 37728             |             |             |                |       |   | Prep Batch: 37678                        |             |           |
| Analyte                           | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec                                     | %Rec Limits | RPD Limit |
| Benzene                           | 0.100       | 0.09898     |                | mg/Kg |   | 99                                       | 70 - 130    | 1 35      |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------|--|-----|-------|
|                     |                |                |                   |       |   |      | Limits   |  |     |       |
| Toluene             | 0.100          | 0.1070         |                   | mg/Kg |   | 107  | 70 - 130 |  | 1   | 35    |
| Ethylbenzene        | 0.100          | 0.09688        |                   | mg/Kg |   | 97   | 70 - 130 |  | 3   | 35    |
| m-Xylene & p-Xylene | 0.200          | 0.1994         |                   | mg/Kg |   | 100  | 70 - 130 |  | 3   | 35    |
| o-Xylene            | 0.100          | 0.1064         |                   | mg/Kg |   | 106  | 70 - 130 |  | 4   | 35    |

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-C MS

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec     |  |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|--|
|                     |                  |                     |                |              |                 |       |   |      | Limits   |  |
| Benzene             | <0.00200         | U F1 F2             | 0.0998         | 0.1091       |                 | mg/Kg |   | 109  | 70 - 130 |  |
| Toluene             | <0.00200         | U F1 F2             | 0.0998         | 0.1041       |                 | mg/Kg |   | 104  | 70 - 130 |  |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.0998         | 0.07417      |                 | mg/Kg |   | 74   | 70 - 130 |  |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.200          | 0.1392       |                 | mg/Kg |   | 70   | 70 - 130 |  |
| o-Xylene            | <0.00200         | U F1 F2             | 0.0998         | 0.08216      |                 | mg/Kg |   | 82   | 70 - 130 |  |

| Surrogate                   | MS        |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-D MSD

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|--|-----|-------|
|                     |                  |                     |                |               |                  |       |   |      | Limits   |  |     |       |
| Benzene             | <0.00200         | U F1 F2             | 0.101          | 0.002336      | F1 F2            | mg/Kg |   | 2    | 70 - 130 |  | 192 | 35    |
| Toluene             | <0.00200         | U F1 F2             | 0.101          | 0.004596      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 183 | 35    |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.101          | 0.004565      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 177 | 35    |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.201          | 0.01034       | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 172 | 35    |
| o-Xylene            | <0.00200         | U F1 F2             | 0.101          | 0.005707      | F1 F2            | mg/Kg |   | 6    | 70 - 130 |  | 174 | 35    |

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

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

Lab Sample ID: MB 880-37501/1-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                                 | MB     |           | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
|   | Result | Qualifier |      |       |   |                |                |         |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37501/1-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37501

| 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 |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| Surrogate                            | MB MB     |           | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |       |   |                |                |         |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| o-Terphenyl                          | 108       |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |

Lab Sample ID: LCS 880-37501/2-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
|                                      |             |            |               |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1112       |               | mg/Kg |   | 111  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1053       |               | mg/Kg |   | 105  | 70 - 130    |
| Surrogate                            | LCS LCS     |            | Limits        |       |   |      |             |
|                                      | %Recovery   | Qualifier  |               |       |   |      |             |
| 1-Chlorooctane                       | 97          |            | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 120         |            | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-37501/3-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
|                                      |             |             |                |       |   |      |             |     |           |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 950.0       |                | mg/Kg |   | 95   | 70 - 130    | 16  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1029        |                | mg/Kg |   | 103  | 70 - 130    | 2   | 20        |
| Surrogate                            | LCSD LCSD   |             | Limits         |       |   |      |             |     |           |
|                                      | %Recovery   | Qualifier   |                |       |   |      |             |     |           |
| 1-Chlorooctane                       | 96          |             | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 116         |             | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 890-3237-A-1-B MS

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
|                                      |               |                  |             |           |              |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1078      |              | mg/Kg |   | 105  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 133           |                  | 998         | 1006      |              | mg/Kg |   | 87   | 70 - 130    |
| Surrogate                            | MS MS         |                  | Limits      |           |              |       |   |      |             |
|                                      | %Recovery     | Qualifier        |             |           |              |       |   |      |             |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 91            |                  | 70 - 130    |           |              |       |   |      |             |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

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

Lab Sample ID: 890-3237-A-1-C MSD

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1136       |               | mg/Kg |   | 111  | 70 - 130    | 5   | 20        |
| Diesel Range Organics (Over C10-C28) | 133           |                  | 998         | 1003       |               | mg/Kg |   | 87   | 70 - 130    | 0   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 83            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 89            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37510/1-A

Matrix: Solid

Analysis Batch: 37597

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 |   |          | 10/23/22 16:51 | 1       |

Lab Sample ID: LCS 880-37510/2-A

Matrix: Solid

Analysis Batch: 37597

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 258.4      |               | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: LCSD 880-37510/3-A

Matrix: Solid

Analysis Batch: 37597

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         | 255.9       |                | mg/Kg |   | 102  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-3236-A-1-C MS

Matrix: Solid

Analysis Batch: 37597

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 | 403           | F1               | 252         | 626.5     | F1           | mg/Kg |   | 89   | 90 - 110    |

Lab Sample ID: 890-3236-A-1-D MSD

Matrix: Solid

Analysis Batch: 37597

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 | 403           | F1               | 252         | 629.1      |               | mg/Kg |   | 90   | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

## GC VOA

## Prep Batch: 37517

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-37517/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 37678

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3238-1           | PH04                   | Total/NA  | Solid  | 5035   |            |
| 890-3238-2           | PH04                   | Total/NA  | Solid  | 5035   |            |
| 890-3238-3           | PH04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 37728

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3238-1           | PH04                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3238-2           | PH04                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3238-3           | PH04                   | Total/NA  | Solid  | 8021B  | 37678      |
| MB 880-37517/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37517      |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37678      |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37678      |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 37678      |

## Analysis Batch: 37869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3238-1    | PH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-3238-2    | PH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-3238-3    | PH04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 37440

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3238-1         | PH04                   | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3238-2         | PH04                   | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3238-3         | PH04                   | Total/NA  | Solid  | 8015B NM | 37501      |
| MB 880-37501/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 37501      |
| LCS 880-37501/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 37501      |
| LCSD 880-37501/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3237-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3237-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 37501      |

## Prep Batch: 37501

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-3238-1        | PH04               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3238-2        | PH04               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3238-3        | PH04               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-37501/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-37501/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

Eurofins Carlsbad

## QC Association Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

## GC Semi VOA (Continued)

## Prep Batch: 37501 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-37501/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3237-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3237-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 37667

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3238-1    | PH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-3238-2    | PH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-3238-3    | PH04             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 37510

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3238-1         | PH04                   | Soluble   | Solid  | DI Leach |            |
| 890-3238-2         | PH04                   | Soluble   | Solid  | DI Leach |            |
| 890-3238-3         | PH04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-37510/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-37510/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-37510/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3236-A-1-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3236-A-1-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 37597

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3238-1         | PH04                   | Soluble   | Solid  | 300.0  | 37510      |
| 890-3238-2         | PH04                   | Soluble   | Solid  | 300.0  | 37510      |
| 890-3238-3         | PH04                   | Soluble   | Solid  | 300.0  | 37510      |
| MB 880-37510/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 37510      |
| LCS 880-37510/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 37510      |
| LCSD 880-37510/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-A-1-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-A-1-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 37510      |

Lab Chronicle

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

Client Sample ID: PH04  
Date Collected: 10/19/22 10:00  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3238-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 04:42       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37869        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37667        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 03:27       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 37597        | 10/23/22 17:59       | CH      | EET MID |

Client Sample ID: PH04  
Date Collected: 10/19/22 10:15  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3238-2  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 05:03       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37869        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37667        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 03:49       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 37597        | 10/23/22 18:04       | CH      | EET MID |

Client Sample ID: PH04  
Date Collected: 10/19/22 10:30  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3238-3  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 05:23       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37869        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37667        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 04:11       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37597        | 10/23/22 18:09       | 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: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

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: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

| 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: Elivis Injection Line

Job ID: 890-3238-1  
SDG: 03D2057011

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3238-1    | PH04             | Solid  | 10/19/22 10:00 | 10/20/22 09:38 | 1     |
| 890-3238-2    | PH04             | Solid  | 10/19/22 10:15 | 10/20/22 09:38 | 2     |
| 890-3238-3    | PH04             | Solid  | 10/19/22 10:30 | 10/20/22 09:38 | 6     |

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## Environment Testing Xenco

## Chain of Custody

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

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

www.xenco.com Page        of       



|                  |                               |                         |                               |
|------------------|-------------------------------|-------------------------|-------------------------------|
| Project Manager: | Kalei Jennings                | Bill to: (if different) | Kalei Jennings                |
| Company Name:    | Ensolum, LLC                  | Company Name:           | Ensolum, LLC                  |
| Address:         | 601 N Marienfeld St Suite 400 | Address:                | 601 N Marienfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701             | City, State ZIP:        | Midland, TX 79701             |
| Phone:           |                               | Email:                  | kiennings@ensolum.com         |

| Work Order Comments  |  |
|--|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b><br>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"/><br>Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____ |  |

[illegible]

|  |  |                         |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                |  |  |  |
|--|--|-------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|
| Total 200.7 / 6010      200.8 / 6020:        |  | 8RCRA 13PPM Texas 11    |  | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                |  |  |  |
| Circle Method(s) and Metal(s) to be analyzed |  | TCLP / SPLP 6010: 8RCRA |  | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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 cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature)  | Received by: (Signature)  | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|----------------|------------------------------|--------------------------|-----------|
| 1  | 2  | 3 10/20/22 938 | 4                            |                          |           |
| 5   |   |                | 6                            |                          |           |

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3238-1

SDG Number: 03D2057011

Login Number: 3238  
List Number: 1  
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3238-1

SDG Number: 03D2057011

Login Number: 3238

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/21/22 10:46 AM

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





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-3241-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

Authorized for release by:

10/26/2022 9:12:52 AM

Jessica Kramer, Project Manager  
(432)704-5440

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

#### LINKS

Review your project  
results through



Have a Question?



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

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

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

Client: Ensolum  
Project/Site: Elvis Injection Line

Laboratory Job ID: 890-3241-1  
SDG: 03D2057011

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

Case Narrative

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Job ID: 890-3241-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3241-1

Receipt

The samples were received on 10/20/2022 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3241-1), PH01 (890-3241-2) and PH01 (890-3241-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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 880-37503 and analytical batch 880-37444 was outside the upper control limits.

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

HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 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: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Client Sample ID: PH01

Lab Sample ID: 890-3241-1

Date Collected: 10/19/22 09:00

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:45 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 06:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 06:45 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:35 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 22:35 | 1       |
| o-Terphenyl    | 95        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 22:35 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 242    |           | 5.05 | mg/Kg |   |          | 10/23/22 20:59 | 1       |

Client Sample ID: PH01

Lab Sample ID: 890-3241-2

Date Collected: 10/19/22 09:15

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 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 |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 07:05 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Client Sample ID: PH01

Lab Sample ID: 890-3241-2

Date Collected: 10/19/22 09:15

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 102       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 07:05 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:55 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:55 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 88        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 22:55 | 1       |
| o-Terphenyl                          | 101       |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 22:55 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6410   |           | 50.2 | mg/Kg |   |          | 10/23/22 21:04 | 10      |

Client Sample ID: PH01

Lab Sample ID: 890-3241-3

Date Collected: 10/19/22 09:30

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 13

## 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 |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 07:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 07:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 07:26 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 09:48 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Client Sample ID: PH01  
Date Collected: 10/19/22 09:30  
Date Received: 10/20/22 09:38  
Sample Depth: 13

Lab Sample ID: 890-3241-3  
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                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:16 | 1       |  |
| Diesel Range Organics (Over C10-C28)                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:16 | 1       |  |
| Oil Range Organics (Over C28-C36)                         | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:16 | 1       |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |
| 1-Chlorooctane  | 84        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 23:16 | 1       |  |
| o-Terphenyl   | 96        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 23:16 | 1       |  |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 787    |           | 5.04 | mg/Kg |   |          | 10/23/22 21:18 | 1       |  |

## Surrogate Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-20579-A-11-C MS               | Matrix Spike           | 89   | 99                |
| 880-20579-A-11-D MSD              | Matrix Spike Duplicate | 97   | 105               |
| 890-3241-1                        | PH01                   | 115  | 99                |
| 890-3241-2                        | PH01                   | 91   | 102               |
| 890-3241-3                        | PH01                   | 108  | 97                |
| LCS 880-37678/1-A                 | Lab Control Sample     | 92   | 101               |
| LCSD 880-37678/2-A                | Lab Control Sample Dup | 94   | 96                |
| MB 880-37517/5-A                  | Method Blank           | 109  | 105               |
| MB 880-37678/5-A                  | Method Blank           | 108  | 106               |
| <b>Surrogate Legend</b>           |                        |  |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |  |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3240-A-2-C MS       | Matrix Spike           | 82   | 84                |
| 890-3240-A-2-D MSD      | Matrix Spike Duplicate | 79   | 81                |
| 890-3241-1              | PH01                   | 82   | 95                |
| 890-3241-2              | PH01                   | 88   | 101               |
| 890-3241-3              | PH01                   | 84   | 96                |
| LCS 880-37503/2-A       | Lab Control Sample     | 90   | 100               |
| LCSD 880-37503/3-A      | Lab Control Sample Dup | 99   | 110               |
| MB 880-37503/1-A        | Method Blank           | 118  | 133 S1+           |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37517/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37517

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109             |                 | 70 - 130 | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105             |                 | 70 - 130 | 10/21/22 14:22 | 10/25/22 11:26 | 1       |

Lab Sample ID: MB 880-37678/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108             |                 | 70 - 130 | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106             |                 | 70 - 130 | 10/24/22 13:20 | 10/25/22 23:00 | 1       |

Lab Sample ID: LCS 880-37678/1-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.1004        |                  | mg/Kg |   | 100  | 70 - 130       |
| Toluene             | 0.100          | 0.1057        |                  | mg/Kg |   | 106  | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.09437       |                  | mg/Kg |   | 94   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.1930        |                  | mg/Kg |   | 96   | 70 - 130       |
| o-Xylene            | 0.100          | 0.1024        |                  | mg/Kg |   | 102  | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 92               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100          | 0.09898        |                   | mg/Kg |   | 99   | 70 - 130       | 1   | 35           |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------|--|-----|-------|
|                     |                |                |                   |       |   |      | Limits   |  |     |       |
| Toluene             | 0.100          | 0.1070         |                   | mg/Kg |   | 107  | 70 - 130 |  | 1   | 35    |
| Ethylbenzene        | 0.100          | 0.09688        |                   | mg/Kg |   | 97   | 70 - 130 |  | 3   | 35    |
| m-Xylene & p-Xylene | 0.200          | 0.1994         |                   | mg/Kg |   | 100  | 70 - 130 |  | 3   | 35    |
| o-Xylene            | 0.100          | 0.1064         |                   | mg/Kg |   | 106  | 70 - 130 |  | 4   | 35    |

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-C MS

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec     |  |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|--|
|                     |                  |                     |                |              |                 |       |   |      | Limits   |  |
| Benzene             | <0.00200         | U F1 F2             | 0.0998         | 0.1091       |                 | mg/Kg |   | 109  | 70 - 130 |  |
| Toluene             | <0.00200         | U F1 F2             | 0.0998         | 0.1041       |                 | mg/Kg |   | 104  | 70 - 130 |  |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.0998         | 0.07417      |                 | mg/Kg |   | 74   | 70 - 130 |  |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.200          | 0.1392       |                 | mg/Kg |   | 70   | 70 - 130 |  |
| o-Xylene            | <0.00200         | U F1 F2             | 0.0998         | 0.08216      |                 | mg/Kg |   | 82   | 70 - 130 |  |

| Surrogate                   | MS        |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-D MSD

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|--|-----|-------|
|                     |                  |                     |                |               |                  |       |   |      | Limits   |  |     |       |
| Benzene             | <0.00200         | U F1 F2             | 0.101          | 0.002336      | F1 F2            | mg/Kg |   | 2    | 70 - 130 |  | 192 | 35    |
| Toluene             | <0.00200         | U F1 F2             | 0.101          | 0.004596      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 183 | 35    |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.101          | 0.004565      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 177 | 35    |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.201          | 0.01034       | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 172 | 35    |
| o-Xylene            | <0.00200         | U F1 F2             | 0.101          | 0.005707      | F1 F2            | mg/Kg |   | 6    | 70 - 130 |  | 174 | 35    |

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

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                                 | MB     |           | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
|   | Result | Qualifier |      |       |   |                |                |         |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| 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 |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Surrogate                            | MB        | MB        | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |       |   |                |                |         |
| 1-Chlorooctane                       | 118       |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| o-Terphenyl                          | 133       | S1+       | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

Lab Sample ID: LCS 880-37503/2-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike Added | LCS       | LCS       | Unit  | D | %Rec | %Rec     | Limits |  |  |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|----------|--------|--|--|
|                                      |             | Result    | Qualifier |       |   |      | Limits   |        |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 858.1     |           | mg/Kg |   | 86   | 70 - 130 |        |  |  |
| Diesel Range Organics (Over C10-C28) | 1000        | 774.2     |           | mg/Kg |   | 77   | 70 - 130 |        |  |  |
| Surrogate                            |             | LCS       | LCS       |       |   |      | Limits   |        |  |  |
|                                      |             | %Recovery | Qualifier |       |   |      |          |        |  |  |
| 1-Chlorooctane                       |             | 90        |           |       |   |      | 70 - 130 |        |  |  |
| o-Terphenyl                          |             | 100       |           |       |   |      | 70 - 130 |        |  |  |

Lab Sample ID: LCSD 880-37503/3-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike Added | LCSD      | LCSD      | Unit  | D | %Rec | %Rec     | Limits | RPD | Limit |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|----------|--------|-----|-------|
|                                      |             | Result    | Qualifier |       |   |      | Limits   |        |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1041      |           | mg/Kg |   | 104  | 70 - 130 | 19     |     | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 902.2     |           | mg/Kg |   | 90   | 70 - 130 | 15     |     | 20    |
| Surrogate                            |             | LCSD      | LCSD      |       |   |      | Limits   |        |     |       |
|                                      |             | %Recovery | Qualifier |       |   |      |          |        |     |       |
| 1-Chlorooctane                       |             | 99        |           |       |   |      | 70 - 130 |        |     |       |
| o-Terphenyl                          |             | 110       |           |       |   |      | 70 - 130 |        |     |       |

Lab Sample ID: 890-3240-A-2-C MS

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample    | Sample    | Spike Added | MS     | MS        | Unit  | D | %Rec | %Rec     | Limits |  |  |
|--------------------------------------|-----------|-----------|-------------|--------|-----------|-------|---|------|----------|--------|--|--|
|                                      | Result    | Qualifier |             | Result | Qualifier |       |   |      | Limits   |        |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 998         | 1086   |           | mg/Kg |   | 109  | 70 - 130 |        |  |  |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 998         | 781.6  |           | mg/Kg |   | 76   | 70 - 130 |        |  |  |
| Surrogate                            | MS        | MS        |             |        |           |       |   |      | Limits   |        |  |  |
|                                      | %Recovery | Qualifier |             |        |           |       |   |      |          |        |  |  |
| 1-Chlorooctane                       | 82        |           |             |        |           |       |   |      | 70 - 130 |        |  |  |
| o-Terphenyl                          | 84        |           |             |        |           |       |   |      | 70 - 130 |        |  |  |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

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

Lab Sample ID: 890-3240-A-2-D MSD

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 1014       |               | mg/Kg |   | 102  | 70 - 130    | 7   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 998         | 762.1      |               | mg/Kg |   | 74   | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 79            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 81            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37511/1-A

Matrix: Solid

Analysis Batch: 37598

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 |   |          | 10/23/22 19:22 | 1       |

Lab Sample ID: LCS 880-37511/2-A

Matrix: Solid

Analysis Batch: 37598

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 259.6      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-37511/3-A

Matrix: Solid

Analysis Batch: 37598

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         | 259.0       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-3240-A-3-C MS

Matrix: Solid

Analysis Batch: 37598

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 | 1120          |                  | 248         | 1334      | 4            | mg/Kg |   | 87   | 90 - 110    |

Lab Sample ID: 890-3240-A-3-D MSD

Matrix: Solid

Analysis Batch: 37598

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 | 1120          |                  | 248         | 1329       | 4             | mg/Kg |   | 85   | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

## GC VOA

## Prep Batch: 37517

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-37517/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 37678

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3241-1           | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-3241-2           | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-3241-3           | PH01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 37728

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3241-1           | PH01                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3241-2           | PH01                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3241-3           | PH01                   | Total/NA  | Solid  | 8021B  | 37678      |
| MB 880-37517/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37517      |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37678      |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37678      |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 37678      |

## Analysis Batch: 37871

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3241-1    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-3241-2    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-3241-3    | PH01             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 37444

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3241-1         | PH01                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3241-2         | PH01                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3241-3         | PH01                   | Total/NA  | Solid  | 8015B NM | 37503      |
| MB 880-37503/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 37503      |
| LCS 880-37503/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 37503      |
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-A-2-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-A-2-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 37503      |

## Prep Batch: 37503

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-3241-1        | PH01               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3241-2        | PH01               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3241-3        | PH01               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-37503/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-37503/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

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QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37503 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-A-2-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-A-2-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

Analysis Batch: 37628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3241-1    | PH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-3241-2    | PH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-3241-3    | PH01             | Total/NA  | Solid  | 8015 NM |            |

HPLC/IC

Leach Batch: 37511

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3241-1         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-3241-2         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-3241-3         | PH01                   | Soluble   | Solid  | DI Leach |            |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3240-A-3-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3240-A-3-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

Analysis Batch: 37598

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3241-1         | PH01                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3241-2         | PH01                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3241-3         | PH01                   | Soluble   | Solid  | 300.0  | 37511      |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 37511      |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 37511      |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-A-3-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-A-3-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 37511      |

Lab Chronicle

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Client Sample ID: PH01  
Date Collected: 10/19/22 09:00  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3241-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 06:45       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37871        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37628        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 22:35       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37598        | 10/23/22 20:59       | CH      | EET MID |

Client Sample ID: PH01  
Date Collected: 10/19/22 09:15  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3241-2  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 07:05       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37871        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37628        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 22:55       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 37598        | 10/23/22 21:04       | CH      | EET MID |

Client Sample ID: PH01  
Date Collected: 10/19/22 09:30  
Date Received: 10/20/22 09:38

Lab Sample ID: 890-3241-3  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 07:26       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37871        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37628        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 23:16       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37598        | 10/23/22 21:18       | 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: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

Laboratory: Eurofins Midland

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

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

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

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

- 1
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- 13
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Method Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

| 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: Elvis Injection Line

Job ID: 890-3241-1  
SDG: 03D2057011

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3241-1    | PH01             | Solid  | 10/19/22 09:00 | 10/20/22 09:38 | 1     |
| 890-3241-2    | PH01             | Solid  | 10/19/22 09:15 | 10/20/22 09:38 | 5     |
| 890-3241-3    | PH01             | Solid  | 10/19/22 09:30 | 10/20/22 09:38 | 13    |

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## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3241-1

SDG Number: 03D2057011

Login Number: 3241

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.  | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.  | True   |                                     |
| Sample Preservation Verified.  | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3241-1

SDG Number: 03D2057011

Login Number: 3241

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/21/22 10:46 AM

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-3240-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

10/26/2022 9:12:52 AM

Jessica Kramer, Project Manager  
(432)704-5440

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

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

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

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

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

Client: Ensolum  
Project/Site: Elvis Injection Line

Laboratory Job ID: 890-3240-1  
SDG: 03D2057011

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



Case Narrative

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Job ID: 890-3240-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3240-1

Receipt

The samples were received on 10/20/2022 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-3240-1), PH02 (890-3240-2) and PH02 (890-3240-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20579-A-11-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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 880-37503 and analytical batch 880-37444 was outside the upper control limits.

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

HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 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: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Client Sample ID: PH02

Lab Sample ID: 890-3240-1

Date Collected: 10/19/22 09:05

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 05:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 05:44 | 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 |   |          | 10/26/22 09:33 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 20:52 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 20:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 20:52 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 77        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 20:52 | 1       |
| o-Terphenyl    | 89        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 20:52 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 165    |           | 5.03 | mg/Kg |   |          | 10/23/22 20:35 | 1       |

Client Sample ID: PH02

Lab Sample ID: 890-3240-2

Date Collected: 10/19/22 09:25

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 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 |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:04 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 06:04 | 1       |

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Client Sample ID: PH02

Lab Sample ID: 890-3240-2

Date Collected: 10/19/22 09:25

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 102       |           | 70 - 130 | 10/24/22 13:20 | 10/26/22 06:04 | 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 |   |          | 10/26/22 09:33 | 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 |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 21:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 21:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 21:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 21:53 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 21:53 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 8760   |           | 50.0 | mg/Kg |   |          | 10/23/22 20:39 | 10      |

Client Sample ID: PH02

Lab Sample ID: 890-3240-3

Date Collected: 10/19/22 09:40

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 12

## 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 |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 |       |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |       |   | 10/24/22 13:20 | 10/26/22 06:24 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 10/26/22 09:33 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 10/24/22 09:48 | 1       |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Client Sample ID: PH02  
Date Collected: 10/19/22 09:40  
Date Received: 10/20/22 09:38  
Sample Depth: 12

Lab Sample ID: 890-3240-3  
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                      | <49.8     | U         | 49.8     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:14 | 1       |  |
| Diesel Range Organics (Over C10-C28)                      | <49.8     | U         | 49.8     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:14 | 1       |  |
| Oil Range Organics (Over C28-C36)                         | <49.8     | U         | 49.8     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 22:14 | 1       |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |
| 1-Chlorooctane  | 83        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 22:14 | 1       |  |
| o-Terphenyl   | 96        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 22:14 | 1       |  |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 1120   |           | 4.96 | mg/Kg |   |          | 10/23/22 20:44 | 1       |  |

Surrogate Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

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

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-20579-A-11-C MS               | Matrix Spike           | 89   | 99                |
| 880-20579-A-11-D MSD              | Matrix Spike Duplicate | 97   | 105               |
| 890-3240-1                        | PH02                   | 103  | 100               |
| 890-3240-2                        | PH02                   | 101  | 102               |
| 890-3240-3                        | PH02                   | 99   | 97                |
| LCS 880-37678/1-A                 | Lab Control Sample     | 92   | 101               |
| LCSD 880-37678/2-A                | Lab Control Sample Dup | 94   | 96                |
| MB 880-37517/5-A                  | Method Blank           | 109  | 105               |
| MB 880-37678/5-A                  | Method Blank           | 108  | 106               |
| Surrogate Legend                  |                        |  |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |  |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |  |                   |

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

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|----------------------|------------------------|--|-------------------|
| Lab Sample ID        | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3240-1           | PH02                   | 77   | 89                |
| 890-3240-2           | PH02                   | 93   | 104               |
| 890-3240-2 MS        | PH02                   | 82   | 84                |
| 890-3240-2 MSD       | PH02                   | 79   | 81                |
| 890-3240-3           | PH02                   | 83   | 96                |
| LCS 880-37503/2-A    | Lab Control Sample     | 90   | 100               |
| LCSD 880-37503/3-A   | Lab Control Sample Dup | 99   | 110               |
| MB 880-37503/1-A     | Method Blank           | 118  | 133 S1+           |
| Surrogate Legend     |                        |  |                   |
| 1CO = 1-Chlorooctane |                        |  |                   |
| OTPH = o-Terphenyl   |                        |  |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37517/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37517

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/21/22 14:22 | 10/25/22 11:26 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109             |                 | 70 - 130 | 10/21/22 14:22 | 10/25/22 11:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105             |                 | 70 - 130 | 10/21/22 14:22 | 10/25/22 11:26 | 1       |

Lab Sample ID: MB 880-37678/5-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/24/22 13:20 | 10/25/22 23:00 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108             |                 | 70 - 130 | 10/24/22 13:20 | 10/25/22 23:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106             |                 | 70 - 130 | 10/24/22 13:20 | 10/25/22 23:00 | 1       |

Lab Sample ID: LCS 880-37678/1-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.1004        |                  | mg/Kg |   | 100  | 70 - 130       |
| Toluene             | 0.100          | 0.1057        |                  | mg/Kg |   | 106  | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.09437       |                  | mg/Kg |   | 94   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.1930        |                  | mg/Kg |   | 96   | 70 - 130       |
| o-Xylene            | 0.100          | 0.1024        |                  | mg/Kg |   | 102  | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 92               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100          | 0.09898        |                   | mg/Kg |   | 99   | 70 - 130       | 1   | 35           |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

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

Lab Sample ID: LCSD 880-37678/2-A

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------|--|-----|-------|
|                     |                |                |                   |       |   |      | Limits   |  |     |       |
| Toluene             | 0.100          | 0.1070         |                   | mg/Kg |   | 107  | 70 - 130 |  | 1   | 35    |
| Ethylbenzene        | 0.100          | 0.09688        |                   | mg/Kg |   | 97   | 70 - 130 |  | 3   | 35    |
| m-Xylene & p-Xylene | 0.200          | 0.1994         |                   | mg/Kg |   | 100  | 70 - 130 |  | 3   | 35    |
| o-Xylene            | 0.100          | 0.1064         |                   | mg/Kg |   | 106  | 70 - 130 |  | 4   | 35    |

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-C MS

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec     |  |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|--|
|                     |                  |                     |                |              |                 |       |   |      | Limits   |  |
| Benzene             | <0.00200         | U F1 F2             | 0.0998         | 0.1091       |                 | mg/Kg |   | 109  | 70 - 130 |  |
| Toluene             | <0.00200         | U F1 F2             | 0.0998         | 0.1041       |                 | mg/Kg |   | 104  | 70 - 130 |  |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.0998         | 0.07417      |                 | mg/Kg |   | 74   | 70 - 130 |  |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.200          | 0.1392       |                 | mg/Kg |   | 70   | 70 - 130 |  |
| o-Xylene            | <0.00200         | U F1 F2             | 0.0998         | 0.08216      |                 | mg/Kg |   | 82   | 70 - 130 |  |

| Surrogate                   | MS        |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |

Lab Sample ID: 880-20579-A-11-D MSD

Matrix: Solid

Analysis Batch: 37728

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37678

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD | Limit |
|---------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|--|-----|-------|
|                     |                  |                     |                |               |                  |       |   |      | Limits   |  |     |       |
| Benzene             | <0.00200         | U F1 F2             | 0.101          | 0.002336      | F1 F2            | mg/Kg |   | 2    | 70 - 130 |  | 192 | 35    |
| Toluene             | <0.00200         | U F1 F2             | 0.101          | 0.004596      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 183 | 35    |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.101          | 0.004565      | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 177 | 35    |
| m-Xylene & p-Xylene | <0.00401         | U F1 F2             | 0.201          | 0.01034       | F1 F2            | mg/Kg |   | 5    | 70 - 130 |  | 172 | 35    |
| o-Xylene            | <0.00200         | U F1 F2             | 0.101          | 0.005707      | F1 F2            | mg/Kg |   | 6    | 70 - 130 |  | 174 | 35    |

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

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                                 | MB     |           | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
|   | Result | Qualifier |      |       |   |                |                |         |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118             |                 | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| o-Terphenyl                          | 133             | S1+             | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

Lab Sample ID: LCS 880-37503/2-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 858.1            |                  | mg/Kg |   | 86   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 774.2            |                  | mg/Kg |   | 77   | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 90               |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 100              |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-37503/3-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1041              |                   | mg/Kg |   | 104  | 70 - 130       | 19  | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 902.2             |                   | mg/Kg |   | 90   | 70 - 130       | 15  | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 99                |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 110               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-3240-2 MS

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                   | 998            | 1086         |                 | mg/Kg |   | 109  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                   | 998            | 781.6        |                 | mg/Kg |   | 76   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 82               |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 84               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

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

**Lab Sample ID: 890-3240-2 MSD**

**Matrix: Solid**

Analysis Batch: 37444

**Client Sample ID: PH02**

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample           | Sample           | Spike    | MSD    | MSD       | Unit  | D | %Rec | %Rec     | RPD | RPD    |
|--------------------------------------|------------------|------------------|----------|--------|-----------|-------|---|------|----------|-----|--------|
|                                      | Result           | Qualifier        | Added    | Result | Qualifier |       |   |      | Limits   |     | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                | 998      | 1014   |           | mg/Kg |   | 102  | 70 - 130 | 7   | 20     |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                | 998      | 762.1  |           | mg/Kg |   | 74   | 70 - 130 | 3   | 20     |
| Surrogate                            | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |        |           |       |   |      |          |     |        |
| 1-Chlorooctane                       | 79               |                  | 70 - 130 |        |           |       |   |      |          |     |        |
| o-Terphenyl                          | 81               |                  | 70 - 130 |        |           |       |   |      |          |     |        |

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

**Lab Sample ID: MB 880-37511/1-A**

**Matrix: Solid**

**Analysis Batch: 37598**

**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 |   |          | 10/23/22 19:22 | 1       |

**Lab Sample ID: LCS 880-37511/2-A**

**Matrix: Solid**

**Analysis Batch: 37598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Soluble**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
|          |             |            |               |       |   |      |             |
| Chloride | 250         | 259.6      |               | mg/Kg |   | 104  | 90 - 110    |

**Lab Sample ID: LCSD 880-37511/3-A**

**Matrix: Solid**

**Analysis Batch: 37598**

**Client Sample ID: Lab Control Sample Dup**

Prep Type: Soluble

|          |  |  | Spike | LCS <sup>D</sup> | LCS <sup>D</sup> |       |   |      | %Rec     | RPD |        |
|----------|--|--|-------|------------------|------------------|-------|---|------|----------|-----|--------|
| Analyte  |  |  | Added | Result           | Qualifier        | Unit  | D | %Rec | Limits   | RPD | Limits |
| Chloride |  |  | 250   | 259.0            |                  | mg/Kg |   | 104  | 90 - 110 | 0   | 20     |

**Lab Sample ID: 890-3240-3 MS**

**Matrix: Solid**

**Analysis Batch: 37598**

**Client Sample ID: PH02**

**Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 1120          |                  | 248         | 1334      | 4            | mg/Kg |   | 87   | 90 - 110    |

**Lab Sample ID: 890-3240-3 MSD**

**Matrix: Solid**

**Analysis Batch: 37598**

**Client Sample ID: PH02**

**Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limits |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|------------|
| Chloride | 1120          |                  | 248         | 1329       | 4             | mg/Kg |   | 85   | 90 - 110    | 0   | 20         |

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## QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

## GC VOA

## Prep Batch: 37517

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-37517/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 37678

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3240-1           | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-3240-2           | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-3240-3           | PH02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 37728

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-3240-1           | PH02                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3240-2           | PH02                   | Total/NA  | Solid  | 8021B  | 37678      |
| 890-3240-3           | PH02                   | Total/NA  | Solid  | 8021B  | 37678      |
| MB 880-37517/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37517      |
| MB 880-37678/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 37678      |
| LCS 880-37678/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37678      |
| LCSD 880-37678/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 37678      |
| 880-20579-A-11-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 37678      |

## Analysis Batch: 37870

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3240-1    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-3240-2    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-3240-3    | PH02             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 37444

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3240-1         | PH02                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-2         | PH02                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-3         | PH02                   | Total/NA  | Solid  | 8015B NM | 37503      |
| MB 880-37503/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 37503      |
| LCS 880-37503/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 37503      |
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-2 MS      | PH02                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-2 MSD     | PH02                   | Total/NA  | Solid  | 8015B NM | 37503      |

## Prep Batch: 37503

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-3240-1        | PH02               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-2        | PH02               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-3        | PH02               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-37503/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-37503/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

## GC Semi VOA (Continued)

## Prep Batch: 37503 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-2 MS      | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-2 MSD     | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 37627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3240-1    | PH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-3240-2    | PH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-3240-3    | PH02             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 37511

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3240-1         | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-3240-2         | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-3240-3         | PH02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3240-3 MS      | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-3240-3 MSD     | PH02                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 37598

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3240-1         | PH02                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-2         | PH02                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-3         | PH02                   | Soluble   | Solid  | 300.0  | 37511      |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 37511      |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 37511      |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-3 MS      | PH02                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-3 MSD     | PH02                   | Soluble   | Solid  | 300.0  | 37511      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Client Sample ID: PH02

Lab Sample ID: 890-3240-1

Date Collected: 10/19/22 09:05

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 05:44       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37870        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37627        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 20:52       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37598        | 10/23/22 20:35       | CH      | EET MID |

Client Sample ID: PH02

Lab Sample ID: 890-3240-2

Date Collected: 10/19/22 09:25

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 06:04       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37870        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37627        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 21:53       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 37598        | 10/23/22 20:39       | CH      | EET MID |

Client Sample ID: PH02

Lab Sample ID: 890-3240-3

Date Collected: 10/19/22 09:40

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 37678        | 10/24/22 13:20       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37728        | 10/26/22 06:24       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 37870        | 10/26/22 09:33       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37627        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 22:14       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37598        | 10/23/22 20:44       | CH      | EET MID |

## Laboratory References:

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

Eurofins Carlsbad



Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

| 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: Elvis Injection Line

Job ID: 890-3240-1  
SDG: 03D2057011

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3240-1    | PH02             | Solid  | 10/19/22 09:05 | 10/20/22 09:38 | 1     |
| 890-3240-2    | PH02             | Solid  | 10/19/22 09:25 | 10/20/22 09:38 | 5     |
| 890-3240-3    | PH02             | Solid  | 10/19/22 09:40 | 10/20/22 09:38 | 12    |

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



Environment Testing  
Xenco

## Chain of Custody

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

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

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|                  |                               |                         |                               |
|------------------|-------------------------------|-------------------------|-------------------------------|
| Project Manager: | Kalei Jennings                | Bill to: (if different) | Kalei Jennings                |
| Company Name:    | Ensolum, LLC                  | Company Name:           | Ensolum, LLC                  |
| Address:         | 601 N Marienfeld St Suite 400 | Address:                | 601 N Marienfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701             | City, State ZIP:        | Midland, TX 79701             |
| Phone:           |                               | Email:                  | kjennings@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:            |   | Turn Around   |  | ANALYSIS REQUEST  |                        |            |             |   |   |  |  |  |  | Preservative Codes |  |   |                            |
|--------------------------|---|---|--|---|------------------------|------------|-------------|---|---|--|--|--|--|--------------------|--|---|----------------------------|
| Project Number:          | 03D2057011  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush       |  | Pres. Code  |                        |            |             |   |   |  |  |  |  |                    |  | None: NO  | DI Water: H <sub>2</sub> O |
| Project Location:        |   | Due Date:   |  | Parameters  | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) |   |   |  |  |  |  |                    |  | Cool: Cool                                      | MeOH: Me                   |
| Sampler's Name:          | Conner Shore  | 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                   |
| SAMPLE RECEIPT           |   | Temp Blank: <input checked="" type="checkbox"/> Yes <input 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:   | TAM-007  |   |                        |            |             |   |   |  |  |  |  |                    |  | NaHSO <sub>4</sub> : NABIS                      |                            |
| Cooler Custody Seals:    | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor:  | -0.2   | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |                        |            |             |   |   |  |  |  |  |                    |  |   |                            |
| Sample Custody Seals:    | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Temperature Reading:  | 3.8  | Zn Acetate+NaOH: Zn   |                        |            |             |   |   |  |  |  |  |                    |  |   |                            |
| Total Containers:        |   | Corrected Temperature:  | 3.6  | NaOH+Ascorbic Acid: SAPC  |                        |            |             |   |   |  |  |  |  |                    |  |   |                            |
| Sample Identification    | Matrix  | Date Sampled  | Time Sampled   | Depth   | Grab/Comp              | # of Cont  |             |   |   |  |  |  |  |                    |  |   | Sample Comments            |
| PH02                     | S   | 10.19.22  | 905  | 1'  | G                      | 1          | X           | X | X |  |  |  |  |                    |  |   |                            |
| PH02                     | S   | 10.19.22  | 925  | 5'  | G                      | 1          | X           | X | X |  |  |  |  |                    |  |   |                            |
| PH02                     | S   | 10.19.22  | 940  | 12'   | G                      | 1          | X           | X | X |  |  |  |  |                    |  |   |                            |
| Incident Number          |   |   |  |   |                        |            |             |   |   |  |  |  |  |                    |  |   |                            |

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time     | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| 1                            |                          | 10/26/22 9:38 |                              |                          |           |
| 3                            |                          |               |                              |                          |           |
| 5                            |                          |               |                              |                          |           |

Revised Date: 08/25/2020 Rev. 2020 2

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3240-1

SDG Number: 03D2057011

Login Number: 3240

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.  | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.  | True   |                                     |
| Sample Preservation Verified.  | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3240-1

SDG Number: 03D2057011

Login Number: 3240

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/21/22 10:46 AM

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



## Environment Testing

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-3236-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elivis Injection Line

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

10/28/2022 10:57:43 AM

Jessica Kramer, Project Manager  
(432)704-5440

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

#### LINKS

Review your project  
results through



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

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



Client: Ensolum  
Project/Site: Elavis Injection Line

Laboratory Job ID: 890-3236-1  
SDG: 03D2057011

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Definitions/Glossary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Job ID: 890-3236-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3236-1

Receipt

The samples were received on 10/20/2022 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH05 (890-3236-1), PH05 (890-3236-2), PH05 (890-3236-3) and PH05 (HOLD) (890-3236-4).

GC VOA

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

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37510 and analytical batch 880-37597 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: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Client Sample ID: PH05

Lab Sample ID: 890-3236-1

Date Collected: 10/19/22 14:00

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 21:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 21:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 21:48 | 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 |   |          | 10/28/22 10:42 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 10/24/22 12:22 | 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 |   | 10/21/22 13:46 | 10/22/22 05:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:46 | 10/22/22 05:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:46 | 10/22/22 05:16 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 75        |           | 70 - 130 | 10/21/22 13:46 | 10/22/22 05:16 | 1       |
| o-Terphenyl    | 83        |           | 70 - 130 | 10/21/22 13:46 | 10/22/22 05:16 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 403    | F1        | 5.04 | mg/Kg |   |          | 10/23/22 17:06 | 1       |

Client Sample ID: PH05

Lab Sample ID: 890-3236-2

Date Collected: 10/19/22 14:10

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 22:09 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Client Sample ID: PH05

Lab Sample ID: 890-3236-2

Date Collected: 10/19/22 14:10

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99        |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 22:09 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 10/28/22 10:42 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 10/24/22 12:22 | 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 |   | 10/21/22 13:46 | 10/22/22 04:33 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:33 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 87        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:33 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:33 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4530   |           | 25.0 | mg/Kg |   |          | 10/23/22 17:20 | 5       |

Client Sample ID: PH05

Lab Sample ID: 890-3236-3

Date Collected: 10/19/22 14:20

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 6

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/27/22 09:43 | 10/27/22 22:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 22:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 10/27/22 09:43 | 10/27/22 22:29 | 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 |   |          | 10/28/22 10:42 | 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 |   |          | 10/24/22 12:22 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Client Sample ID: PH05

Lab Sample ID: 890-3236-3

Date Collected: 10/19/22 14:20

Matrix: Solid

Date Received: 10/20/22 09:38

Sample Depth: 6

| 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 |   | 10/21/22 13:46 | 10/22/22 04:55 | 1       |  |
| Diesel Range Organics (Over C10-C28)                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:55 | 1       |  |
| OII Range Organics (Over C28-C36)                         | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:46 | 10/22/22 04:55 | 1       |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |
| 1-Chlorooctane  | 90        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:55 | 1       |  |
| o-Terphenyl   | 108       |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/22/22 04:55 | 1       |  |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 431    |           | 5.00 | mg/Kg |   |          | 10/23/22 17:25 | 1       |  |

## Surrogate Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-3236-1                        | PH05                   | 112  | 99                |
| 890-3236-2                        | PH05                   | 115  | 99                |
| 890-3236-3                        | PH05                   | 116  | 93                |
| 890-3252-A-2-B MS                 | Matrix Spike           | 114  | 101               |
| 890-3252-A-2-C MSD                | Matrix Spike Duplicate | 125  | 93                |
| LCS 880-37686/1-A                 | Lab Control Sample     | 111  | 98                |
| LCS 880-37987/1-A                 | Lab Control Sample     | 96   | 96                |
| LCSD 880-37686/2-A                | Lab Control Sample Dup | 111  | 94                |
| LCSD 880-37987/2-A                | Lab Control Sample Dup | 104  | 101               |
| MB 880-37987/5-A                  | Method Blank           | 111  | 106               |
| <b>Surrogate Legend</b>           |                        |  |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |  |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3236-1              | PH05                   | 75   | 83                |
| 890-3236-2              | PH05                   | 87   | 104               |
| 890-3236-3              | PH05                   | 90   | 108               |
| 890-3237-A-1-B MS       | Matrix Spike           | 84   | 91                |
| 890-3237-A-1-C MSD      | Matrix Spike Duplicate | 83   | 89                |
| LCS 880-37501/2-A       | Lab Control Sample     | 97   | 120               |
| LCSD 880-37501/3-A      | Lab Control Sample Dup | 96   | 116               |
| MB 880-37501/1-A        | Method Blank           | 90   | 108               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |



QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Method: 8021B - Volatile Organic Compounds (GC)

| Lab Sample ID: LCS 880-37686/1-A |               |               |               | Client Sample ID: Lab Control Sample |   |      |             |
|----------------------------------|---------------|---------------|---------------|--------------------------------------|---|------|-------------|
| Matrix: Solid                    |               |               |               | Prep Type: Total/NA                  |   |      |             |
| Analysis Batch: 37962            |               |               |               | Prep Batch: 37686                    |   |      |             |
| Analyte                          | Spike Added   | LCS Result    | LCS Qualifier | Unit                                 | D | %Rec | %Rec Limits |
| Benzene                          | 0.100         | 0.08480       |               | mg/Kg                                |   | 85   | 70 - 130    |
| Toluene                          | 0.100         | 0.09591       |               | mg/Kg                                |   | 96   | 70 - 130    |
| Ethylbenzene                     | 0.100         | 0.08819       |               | mg/Kg                                |   | 88   | 70 - 130    |
| m-Xylene & p-Xylene              | 0.200         | 0.1857        |               | mg/Kg                                |   | 93   | 70 - 130    |
| o-Xylene                         | 0.100         | 0.1003        |               | mg/Kg                                |   | 100  | 70 - 130    |
|                                  |               |               |               |                                      |   |      |             |
| Surrogate                        | LCS %Recovery | LCS Qualifier | Limits        |                                      |   |      |             |
| 4-Bromofluorobenzene (Surr)      | 111           |               | 70 - 130      |                                      |   |      |             |
| 1,4-Difluorobenzene (Surr)       | 98            |               | 70 - 130      |                                      |   |      |             |

|                                   |  |           |           |          |  |           |       |   |      |          |     |
|-----------------------------------|--|-----------|-----------|----------|--|-----------|-------|---|------|----------|-----|
| Lab Sample ID: LCSD 880-37686/2-A |  |           |           |          | Client Sample ID: Lab Control Sample Dup |           |       |   |      |          |     |
| Matrix: Solid                     |  |           |           |          | Prep Type: Total/NA                      |           |       |   |      |          |     |
| Analysis Batch: 37962             |  |           |           |          | Prep Batch: 37686                        |           |       |   |      |          |     |
|                                   |  |           |           | Spike    | LCSD                                     | LCSD      |       |   | %Rec |          | RPD |
| Analyte                           |  |           |           | Added    | Result                                   | Qualifier | Unit  | D | %Rec | Limits   | RPD |
| Benzene                           |  |           |           | 0.100    | 0.09111                                  |           | mg/Kg |   | 91   | 70 - 130 | 7   |
| Toluene                           |  |           |           | 0.100    | 0.1067                                   |           | mg/Kg |   | 107  | 70 - 130 | 11  |
| Ethylbenzene                      |  |           |           | 0.100    | 0.09617                                  |           | mg/Kg |   | 96   | 70 - 130 | 9   |
| m-Xylene & p-Xylene               |  |           |           | 0.200    | 0.2029                                   |           | mg/Kg |   | 101  | 70 - 130 | 9   |
| o-Xylene                          |  |           |           | 0.100    | 0.1086                                   |           | mg/Kg |   | 109  | 70 - 130 | 8   |
|                                   |  |           |           |          |  |           |       |   |      |          |     |
|                                   |  |           |           | LCSD     | LCSD                                     |           |       |   |      |          |     |
| Surrogate                         |  | %Recovery | Qualifier | Limits   |  |           |       |   |      |          |     |
| 4-Bromofluorobenzene (Surr)       |  | 111       |           | 70 - 130 |  |           |       |   |      |          |     |
| 1,4-Difluorobenzene (Surr)        |  | 94        |           | 70 - 130 |  |           |       |   |      |          |     |

|                                  |           |           |          |         |           |       |                                |      |          |  |  |
|----------------------------------|-----------|-----------|----------|---------|-----------|-------|--------------------------------|------|----------|--|--|
| Lab Sample ID: 890-3252-A-2-B MS |           |           |          |         |           |       | Client Sample ID: Matrix Spike |      |          |  |  |
| Matrix: Solid                    |           |           |          |         |           |       | Prep Type: Total/NA            |      |          |  |  |
| Analysis Batch: 37962            |           |           |          |         |           |       | Prep Batch: 37686              |      |          |  |  |
|                                  | Sample    | Sample    | Spike    | MS      | MS        |       |                                |      | %Rec     |  |  |
| Analyte                          | Result    | Qualifier | Added    | Result  | Qualifier | Unit  | D                              | %Rec | Limits   |  |  |
| Benzene                          | <0.00201  | U         | 0.0998   | 0.09028 |           | mg/Kg |                                | 90   | 70 - 130 |  |  |
| Toluene                          | <0.00201  | U         | 0.0998   | 0.09150 |           | mg/Kg |                                | 92   | 70 - 130 |  |  |
| Ethylbenzene                     | <0.00201  | U         | 0.0998   | 0.08339 |           | mg/Kg |                                | 84   | 70 - 130 |  |  |
| m-Xylene & p-Xylene              | <0.00402  | U         | 0.200    | 0.1745  |           | mg/Kg |                                | 87   | 70 - 130 |  |  |
| o-Xylene                         | <0.00201  | U         | 0.0998   | 0.09453 |           | mg/Kg |                                | 95   | 70 - 130 |  |  |
|                                  |           |           |          |         |           |       |                                |      |          |  |  |
|                                  | MS        | MS        |          |         |           |       |                                |      |          |  |  |
| Surrogate                        | %Recovery | Qualifier | Limits   |         |           |       |                                |      |          |  |  |
| 4-Bromofluorobenzene (Surr)      | 114       |           | 70 - 130 |         |           |       |                                |      |          |  |  |
| 1,4-Difluorobenzene (Surr)       | 101       |           | 70 - 130 |         |           |       |                                |      |          |  |  |

|                                   |          |           |        |         |           |       |  |      |          |     |        |
|-----------------------------------|----------|-----------|--------|---------|-----------|-------|--|------|----------|-----|--------|
| Lab Sample ID: 890-3252-A-2-C MSD |          |           |        |         |           |       | Client Sample ID: Matrix Spike Duplicate |      |          |     |        |
| Matrix: Solid                     |          |           |        |         |           |       | Prep Type: Total/NA                      |      |          |     |        |
| Analysis Batch: 37962             |          |           |        |         |           |       | Prep Batch: 37686                        |      |          |     |        |
|                                   | Sample   | Sample    | Spike  | MSD     | MSD       |       |  |      | %Rec     |     | RPD    |
| Analyte                           | Result   | Qualifier | Added  | Result  | Qualifier | Unit  | D  | %Rec | Limits   | RPD | Limits |
| Benzene                           | <0.00201 | U         | 0.0990 | 0.06966 |           | mg/Kg |  | 70   | 70 - 130 | 26  | 35     |
| Toluene                           | <0.00201 | U         | 0.0990 | 0.08940 |           | mg/Kg |  | 90   | 70 - 130 | 2   | 35     |
| Ethylbenzene                      | <0.00201 | U         | 0.0990 | 0.08208 |           | mg/Kg |  | 83   | 70 - 130 | 2   | 35     |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

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

Lab Sample ID: 890-3252-A-2-C MSD

Matrix: Solid

Analysis Batch: 37962

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37686

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| m-Xylene & p-Xylene         | <0.00402      | U                | 0.198       | 0.1737     |               | mg/Kg |   | 88   | 70 - 130    | 0   | 35        |
| o-Xylene                    | <0.00201      | U                | 0.0990      | 0.09585    |               | mg/Kg |   | 97   | 70 - 130    | 1   | 35        |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | MSD Limits  |            |               |       |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr) | 125           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| 1,4-Difluorobenzene (Surr)  | 93            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-37987/5-A

Matrix: Solid

Analysis Batch: 37962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37987

| Analyte                     | MB Result    | MB Qualifier | RL        | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|-----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200     | U            | 0.00200   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| Toluene                     | <0.00200     | U            | 0.00200   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| Ethylbenzene                | <0.00200     | U            | 0.00200   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| m-Xylene & p-Xylene         | <0.00400     | U            | 0.00400   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| o-Xylene                    | <0.00200     | U            | 0.00200   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| Xylenes, Total              | <0.00400     | U            | 0.00400   | mg/Kg |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| Surrogate                   | MB %Recovery | MB Qualifier | MB Limits |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111          |              | 70 - 130  |       |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106          |              | 70 - 130  |       |   | 10/27/22 09:43 | 10/27/22 14:04 | 1       |

Lab Sample ID: LCS 880-37987/1-A

Matrix: Solid

Analysis Batch: 37962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37987

| Analyte                     | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |  |
|-----------------------------|---------------|---------------|---------------|-------|---|------|-------------|--|
| Benzene                     | 0.100         | 0.09096       |               | mg/Kg |   | 91   | 70 - 130    |  |
| Toluene                     | 0.100         | 0.09666       |               | mg/Kg |   | 97   | 70 - 130    |  |
| Ethylbenzene                | 0.100         | 0.08571       |               | mg/Kg |   | 86   | 70 - 130    |  |
| m-Xylene & p-Xylene         | 0.200         | 0.1777        |               | mg/Kg |   | 89   | 70 - 130    |  |
| o-Xylene                    | 0.100         | 0.09292       |               | mg/Kg |   | 93   | 70 - 130    |  |
| Surrogate                   | LCS %Recovery | LCS Qualifier | LCS Limits    |       |   |      |             |  |
| 4-Bromofluorobenzene (Surr) | 96            |               | 70 - 130      |       |   |      |             |  |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130      |       |   |      |             |  |

Lab Sample ID: LCSD 880-37987/2-A

Matrix: Solid

Analysis Batch: 37962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37987

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1002      |                | mg/Kg |   | 100  | 70 - 130    | 10  | 35        |
| Toluene             | 0.100       | 0.1110      |                | mg/Kg |   | 111  | 70 - 130    | 14  | 35        |
| Ethylbenzene        | 0.100       | 0.09703     |                | mg/Kg |   | 97   | 70 - 130    | 12  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2041      |                | mg/Kg |   | 102  | 70 - 130    | 14  | 35        |
| o-Xylene            | 0.100       | 0.1074      |                | mg/Kg |   | 107  | 70 - 130    | 14  | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

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

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |

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

Lab Sample ID: MB 880-37501/1-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37501

| 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 |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| Surrogate                            | MB        | MB        | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |       |   |                |                |         |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |
| o-Terphenyl                          | 108       |           | 70 - 130 |       |   | 10/21/22 13:46 | 10/21/22 20:18 | 1       |

Lab Sample ID: LCS 880-37501/2-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              |           |           | Spike    | LCS    | LCS       | Unit  | D | %Rec | %Rec     |  |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
|                                      |           |           | Added    | Result | Qualifier |       |   |      | Limits   |  |  |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 1112   |           | mg/Kg |   | 111  | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1053   |           | mg/Kg |   | 105  | 70 - 130 |  |  |
| Surrogate                            | LCS       |           | Limits   |        |           |       |   |      |          |  |  |
|                                      | %Recovery | Qualifier |          |        |           |       |   |      |          |  |  |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |        |           |       |   |      |          |  |  |
| o-Terphenyl                          | 120       |           | 70 - 130 |        |           |       |   |      |          |  |  |

Lab Sample ID: LCSD 880-37501/3-A

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              |           |           | Spike    | LCSD   | LCSD      | Unit  | D | %Rec | %Rec     | RPD | RPD   |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
|                                      |           |           | Added    | Result | Qualifier |       |   |      | Limits   |     | Limit |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 950.0  |           | mg/Kg |   | 95   | 70 - 130 | 16  | 20    |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1029   |           | mg/Kg |   | 103  | 70 - 130 | 2   | 20    |
| Surrogate                            | LCSD      |           | Limits   |        |           |       |   |      |          |     |       |
|                                      | %Recovery | Qualifier |          |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 116       |           | 70 - 130 |        |           |       |   |      |          |     |       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

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

Lab Sample ID: 890-3237-A-1-B MS

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1078      |              | mg/Kg |   | 105  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 133           |                  | 998         | 1006      |              | mg/Kg |   | 87   | 70 - 130    |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |             |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 91            |                  | 70 - 130    |           |              |       |   |      |             |

Lab Sample ID: 890-3237-A-1-C MSD

Matrix: Solid

Analysis Batch: 37440

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37501

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1136       |               | mg/Kg |   | 111  | 70 - 130    | 5   | 20        |
| Diesel Range Organics (Over C10-C28) | 133           |                  | 998         | 1003       |               | mg/Kg |   | 87   | 70 - 130    | 0   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 83            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 89            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37510/1-A

Matrix: Solid

Analysis Batch: 37597

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 |   |          | 10/23/22 16:51 | 1       |

Lab Sample ID: LCS 880-37510/2-A

Matrix: Solid

Analysis Batch: 37597

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 258.4      |               | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: LCSD 880-37510/3-A

Matrix: Solid

Analysis Batch: 37597

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         | 255.9       |                | mg/Kg |   | 102  | 90 - 110    | 1   | 20        |

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QC Sample Results

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Method: 300.0 - Anions, Ion Chromatography (Continued)

|                              |               |                  |             |           |              |       |   |      |             |  |                        |  |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|------------------------|--|--|
| Lab Sample ID: 890-3236-1 MS |               |                  |             |           |              |       |   |      |             |  | Client Sample ID: PH05 |  |  |
| Matrix: Solid                |               |                  |             |           |              |       |   |      |             |  | Prep Type: Soluble     |  |  |
| Analysis Batch: 37597        |               |                  |             |           |              |       |   |      |             |  |                        |  |  |
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |                        |  |  |
| Chloride                     | 403           | F1               | 252         | 626.5     | F1           | mg/Kg |   | 89   | 90 - 110    |  |                        |  |  |

|                               |               |                  |             |            |               |       |   |      |             |  |                        |           |  |
|-------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|--|------------------------|-----------|--|
| Lab Sample ID: 890-3236-1 MSD |               |                  |             |            |               |       |   |      |             |  | Client Sample ID: PH05 |           |  |
| Matrix: Solid                 |               |                  |             |            |               |       |   |      |             |  | Prep Type: Soluble     |           |  |
| Analysis Batch: 37597         |               |                  |             |            |               |       |   |      |             |  |                        |           |  |
| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits |  | RPD                    | RPD Limit |  |
| Chloride                      | 403           | F1               | 252         | 629.1      |               | mg/Kg |   | 90   | 90 - 110    |  | 0                      | 20        |  |

## QC Association Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

## GC VOA

## Prep Batch: 37686

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCS 880-37686/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37686/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-3252-A-2-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-3252-A-2-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 37962

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3236-1         | PH05                   | Total/NA  | Solid  | 8021B  | 37987      |
| 890-3236-2         | PH05                   | Total/NA  | Solid  | 8021B  | 37987      |
| 890-3236-3         | PH05                   | Total/NA  | Solid  | 8021B  | 37987      |
| MB 880-37987/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 37987      |
| LCS 880-37686/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37686      |
| LCS 880-37987/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37987      |
| LCSD 880-37686/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37686      |
| LCSD 880-37987/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37987      |
| 890-3252-A-2-B MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 37686      |
| 890-3252-A-2-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 37686      |

## Prep Batch: 37987

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3236-1         | PH05                   | Total/NA  | Solid  | 5035   |            |
| 890-3236-2         | PH05                   | Total/NA  | Solid  | 5035   |            |
| 890-3236-3         | PH05                   | Total/NA  | Solid  | 5035   |            |
| MB 880-37987/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-37987/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37987/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 38085

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3236-1    | PH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-3236-2    | PH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-3236-3    | PH05             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 37440

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3236-1         | PH05                   | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3236-2         | PH05                   | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3236-3         | PH05                   | Total/NA  | Solid  | 8015B NM | 37501      |
| MB 880-37501/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 37501      |
| LCS 880-37501/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 37501      |
| LCSD 880-37501/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3237-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 37501      |
| 890-3237-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 37501      |

## Prep Batch: 37501

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-3236-1    | PH05             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3236-2    | PH05             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3236-3    | PH05             | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

## GC Semi VOA (Continued)

## Prep Batch: 37501 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| MB 880-37501/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-37501/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-37501/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3237-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3237-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 37668

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3236-1    | PH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-3236-2    | PH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-3236-3    | PH05             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 37510

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3236-1         | PH05                   | Soluble   | Solid  | DI Leach |            |
| 890-3236-2         | PH05                   | Soluble   | Solid  | DI Leach |            |
| 890-3236-3         | PH05                   | Soluble   | Solid  | DI Leach |            |
| MB 880-37510/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-37510/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-37510/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3236-1 MS      | PH05                   | Soluble   | Solid  | DI Leach |            |
| 890-3236-1 MSD     | PH05                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 37597

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3236-1         | PH05                   | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-2         | PH05                   | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-3         | PH05                   | Soluble   | Solid  | 300.0  | 37510      |
| MB 880-37510/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 37510      |
| LCS 880-37510/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 37510      |
| LCSD 880-37510/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-1 MS      | PH05                   | Soluble   | Solid  | 300.0  | 37510      |
| 890-3236-1 MSD     | PH05                   | Soluble   | Solid  | 300.0  | 37510      |



## Lab Chronicle

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

Client Sample ID: PH05

Lab Sample ID: 890-3236-1

Date Collected: 10/19/22 14:00

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 37987        | 10/27/22 09:43       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37962        | 10/27/22 21:48       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38085        | 10/28/22 10:42       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37668        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 05:16       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37597        | 10/23/22 17:06       | CH      | EET MID |

Client Sample ID: PH05

Lab Sample ID: 890-3236-2

Date Collected: 10/19/22 14:10

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 37987        | 10/27/22 09:43       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37962        | 10/27/22 22:09       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38085        | 10/28/22 10:42       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37668        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 04:33       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 37597        | 10/23/22 17:20       | CH      | EET MID |

Client Sample ID: PH05

Lab Sample ID: 890-3236-3

Date Collected: 10/19/22 14:20

Matrix: Solid

Date Received: 10/20/22 09:38

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 37987        | 10/27/22 09:43       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 37962        | 10/27/22 22:29       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38085        | 10/28/22 10:42       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37668        | 10/24/22 12:22       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 37501        | 10/21/22 13:46       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37440        | 10/22/22 04:55       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 37510        | 10/21/22 14:10       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 37597        | 10/23/22 17:25       | CH      | EET MID |

## Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

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: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

| 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: Elivis Injection Line

Job ID: 890-3236-1  
SDG: 03D2057011

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3236-1    | PH05             | Solid  | 10/19/22 14:00 | 10/20/22 09:38 | 1     |
| 890-3236-2    | PH05             | Solid  | 10/19/22 14:10 | 10/20/22 09:38 | 3     |
| 890-3236-3    | PH05             | Solid  | 10/19/22 14:20 | 10/20/22 09:38 | 6     |

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**Environment Testing**  
**Xenco**

## Chain of Custody

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

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

[www.xenco.com](http://www.xenco.com)

Page 1 of 1

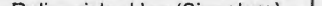
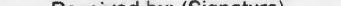
|                  |                               |                         |                               |
|------------------|-------------------------------|-------------------------|-------------------------------|
| Project Manager: | Kalei Jennings                | Bill to: (if different) | Kalei Jennings                |
| Company Name:    | Ensolum, LLC                  | Company Name:           | Ensolum, LLC                  |
| Address:         | 601 N Marienfeld St Suite 400 | Address:                | 601 N Marienfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701             | City, State ZIP:        | Midland, TX 79701             |
| Phone:           |                               | Email:                  | kjennings@ensolum.com         |

| Work Order Comments  |  |
|--|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b><br>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"/><br>Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |  |

[illegible]

|  |                     |                      |                          |       |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |                            |    |    |                  |    |    |    |    |   |   |    |
|--|---------------------|----------------------|--------------------------|-------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----------------------------|----|----|------------------|----|----|----|----|---|---|----|
| <b>Total</b>                                 | <b>200.7 / 6010</b> | <b>200.8 / 6020:</b> | 8RCRA                    | 13PPM | Texas 11 | Al | Sb | As | Ba | Be | B  | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Mo | Ni  | K                          | Se | Ag | SiO <sub>2</sub> | Na | Sr | Tl | Sn | U | V | Zn |
| Circle Method(s) and Metal(s) to be analyzed |                     |                      | <b>TCLP / SPLP 6010:</b> |       | 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 cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature)  | Received by: (Signature)  | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|--------------|------------------------------|--------------------------|-----------|
| 1  |  | 10/20/22 935 |                              |                          |           |
| 3   |   |              | 4                            |                          |           |
| 5   |   |              | 6                            |                          |           |

Revised Date 08/25/2020 Rev. 2020.2

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3236-1

SDG Number: 03D2057011

Login Number: 3236

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.  | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.  | True   |                                     |
| Sample Preservation Verified.  | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3236-1

SDG Number: 03D2057011

Login Number: 3236

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/21/22 10:46 AM

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





## Environment Testing

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-3242-1

Laboratory Sample Delivery Group: 03D2057011

Client Project/Site: Elvis Injection Line

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

10/31/2022 9:38:06 AM

Jessica Kramer, Project Manager

(432)704-5440

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

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

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

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

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

Client: Ensolum  
Project/Site: Elvis Injection Line

Laboratory Job ID: 890-3242-1  
SDG: 03D2057011

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Definitions/Glossary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Job ID: 890-3242-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3242-1

Receipt

The samples were received on 10/20/2022 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-3242-1), PH03 (890-3242-2) and PH03 (890-3242-3).

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (880-20605-A-1-E MS) and (880-20605-A-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-38021 and analytical batch 880-38089 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-37503 and analytical batch 880-37444 was outside the upper control limits.

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

HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37511 and analytical batch 880-37598 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: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Client Sample ID: PH03

Lab Sample ID: 890-3242-1

Date Collected: 10/19/22 12:00

Matrix: Solid

Date Received: 10/20/22 09:58

Sample Depth: 1'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:15 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 10/30/22 21:36 | 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 |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:36 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:36 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:36 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 75        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 23:36 | 1       |
| o-Terphenyl    | 86        |           | 70 - 130 | 10/21/22 13:50 | 10/21/22 23:36 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1260   |           | 25.2 | mg/Kg |   |          | 10/23/22 21:23 | 5       |

Client Sample ID: PH03

Lab Sample ID: 890-3242-2

Date Collected: 10/19/22 12:15

Matrix: Solid

Date Received: 10/20/22 09:58

Sample Depth: 8'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 129       |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:36 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Client Sample ID: PH03

Lab Sample ID: 890-3242-2

Date Collected: 10/19/22 12:15

Matrix: Solid

Date Received: 10/20/22 09:58

Sample Depth: 8'

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:36 | 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 |   |          | 10/30/22 21:36 | 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 |   |          | 10/24/22 09:48 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 23:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 87        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 23:57 | 1       |
| o-Terphenyl                          | 101       |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 23:57 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 4810   |           | 24.9 | mg/Kg |   |          | 10/23/22 21:28 | 5       |

Client Sample ID: PH03

Lab Sample ID: 890-3242-3

Date Collected: 10/19/22 12:30

Matrix: Solid

Date Received: 10/20/22 09:58

Sample Depth: 15'

## 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 |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 02:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 10/26/22 14:13 | 10/29/22 02:56 | 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 |   |          | 10/30/22 21:36 | 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 |   |          | 10/24/22 09:48 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Client Sample ID: PH03  
Date Collected: 10/19/22 12:30  
Date Received: 10/20/22 09:58  
Sample Depth: 15'

Lab Sample ID: 890-3242-3  
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                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/22/22 00:18 | 1       |  |
| Diesel Range Organics (Over C10-C28)                      | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/22/22 00:18 | 1       |  |
| Oil Range Organics (Over C28-C36)                         | <49.9     | U         | 49.9     | mg/Kg |   | 10/21/22 13:50 | 10/22/22 00:18 | 1       |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |
| 1-Chlorooctane  | 83        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/22/22 00:18 | 1       |  |
| o-Terphenyl   | 95        |           | 70 - 130 |       |   | 10/21/22 13:50 | 10/22/22 00:18 | 1       |  |

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 4020   |           | 50.4 | mg/Kg |   |          | 10/23/22 21:33 | 10      |  |



## Surrogate Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-20605-A-1-E MS                | Matrix Spike           | 101  | 92                |
| 880-20605-A-1-F MSD               | Matrix Spike Duplicate | 102  | 90                |
| 890-3242-1                        | PH03                   | 118  | 94                |
| 890-3242-2                        | PH03                   | 129  | 93                |
| 890-3242-3                        | PH03                   | 117  | 91                |
| LCS 880-37911/1-A                 | Lab Control Sample     | 99   | 91                |
| LCSD 880-37911/2-A                | Lab Control Sample Dup | 101  | 91                |
| MB 880-37911/5-A                  | Method Blank           | 102  | 87                |
| MB 880-38021/5-A                  | Method Blank           | 72   | 60 S1-            |
| <b>Surrogate Legend</b>           |                        |  |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |  |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3240-A-2-C MS       | Matrix Spike           | 82   | 84                |
| 890-3240-A-2-D MSD      | Matrix Spike Duplicate | 79   | 81                |
| 890-3242-1              | PH03                   | 75   | 86                |
| 890-3242-2              | PH03                   | 87   | 101               |
| 890-3242-3              | PH03                   | 83   | 95                |
| LCS 880-37503/2-A       | Lab Control Sample     | 90   | 100               |
| LCSD 880-37503/3-A      | Lab Control Sample Dup | 99   | 110               |
| MB 880-37503/1-A        | Method Blank           | 118  | 133 S1+           |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37911/5-A

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37911

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 10/26/22 14:13 | 10/29/22 01:12 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102             |                 | 70 - 130 | 10/26/22 14:13 | 10/29/22 01:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87              |                 | 70 - 130 | 10/26/22 14:13 | 10/29/22 01:12 | 1       |

Lab Sample ID: LCS 880-37911/1-A

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37911

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.07484       |                  | mg/Kg |   | 75   | 70 - 130       |
| Toluene             | 0.100          | 0.07671       |                  | mg/Kg |   | 77   | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.07425       |                  | mg/Kg |   | 74   | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.1480        |                  | mg/Kg |   | 74   | 70 - 130       |
| o-Xylene            | 0.100          | 0.08609       |                  | mg/Kg |   | 86   | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 99               |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91               |                  | 70 - 130 |

Lab Sample ID: LCSD 880-37911/2-A

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37911

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene             | 0.100          | 0.07938        |                   | mg/Kg |   | 79   | 70 - 130       | 6   | 35           |
| Toluene             | 0.100          | 0.08189        |                   | mg/Kg |   | 82   | 70 - 130       | 7   | 35           |
| Ethylbenzene        | 0.100          | 0.08032        |                   | mg/Kg |   | 80   | 70 - 130       | 8   | 35           |
| m-Xylene & p-Xylene | 0.200          | 0.1556         |                   | mg/Kg |   | 78   | 70 - 130       | 5   | 35           |
| o-Xylene            | 0.100          | 0.08950        |                   | mg/Kg |   | 89   | 70 - 130       | 4   | 35           |

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 101               |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91                |                   | 70 - 130 |

Lab Sample ID: 880-20605-A-1-E MS

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37911

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00201         | U F1                | 0.100          | 0.08080      |                 | mg/Kg |   | 80   | 70 - 130       |
| Toluene | <0.00201         | U F1                | 0.100          | 0.07923      |                 | mg/Kg |   | 78   | 70 - 130       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

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

Lab Sample ID: 880-20605-A-1-E MS

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37911

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene                | <0.00201      | U F1             | 0.100       | 0.07637   |              | mg/Kg |   | 76   | 70 - 130    |
| m-Xylene & p-Xylene         | <0.00402      | U F1             | 0.200       | 0.1440    |              | mg/Kg |   | 72   | 70 - 130    |
| o-Xylene                    | <0.00201      | U                | 0.100       | 0.08398   |              | mg/Kg |   | 84   | 70 - 130    |
| Surrogate                   | %Recovery     | MS Qualifier     | MS Limits   |           |              |       |   |      |             |
| 4-Bromofluorobenzene (Surr) | 101           |                  | 70 - 130    |           |              |       |   |      |             |
| 1,4-Difluorobenzene (Surr)  | 92            |                  | 70 - 130    |           |              |       |   |      |             |

Lab Sample ID: 880-20605-A-1-F MSD

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37911

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene                     | <0.00201      | U F1             | 0.0990      | 0.06610    | F1            | mg/Kg |   | 66   | 70 - 130    | 20  | 35        |
| Toluene                     | <0.00201      | U F1             | 0.0990      | 0.06481    | F1            | mg/Kg |   | 65   | 70 - 130    | 20  | 35        |
| Ethylbenzene                | <0.00201      | U F1             | 0.0990      | 0.06337    | F1            | mg/Kg |   | 64   | 70 - 130    | 19  | 35        |
| m-Xylene & p-Xylene         | <0.00402      | U F1             | 0.198       | 0.1224     | F1            | mg/Kg |   | 62   | 70 - 130    | 16  | 35        |
| o-Xylene                    | <0.00201      | U                | 0.0990      | 0.07052    |               | mg/Kg |   | 71   | 70 - 130    | 17  | 35        |
| Surrogate                   | %Recovery     | MSD Qualifier    | MSD Limits  |            |               |       |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr) | 102           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| 1,4-Difluorobenzene (Surr)  | 90            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-38021/5-A

Matrix: Solid

Analysis Batch: 38089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38021

| Analyte                     | MB Result | MB Qualifier | RL        | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U            | 0.00200   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| Toluene                     | <0.00200  | U            | 0.00200   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| Ethylbenzene                | <0.00200  | U            | 0.00200   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U            | 0.00400   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| o-Xylene                    | <0.00200  | U            | 0.00200   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| Xylenes, Total              | <0.00400  | U            | 0.00400   | mg/Kg |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| Surrogate                   | %Recovery | MB Qualifier | MB Limits |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 72        |              | 70 - 130  |       |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 60        | S1-          | 70 - 130  |       |   | 10/27/22 13:34 | 10/28/22 13:48 | 1       |

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| 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 |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

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

Lab Sample ID: MB 880-37503/1-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118             |                 | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |
| o-Terphenyl                          | 133             | S1+             | 70 - 130 |       |   | 10/21/22 13:50 | 10/21/22 19:50 | 1       |

Lab Sample ID: LCS 880-37503/2-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 858.1            |                  | mg/Kg |   | 86   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 774.2            |                  | mg/Kg |   | 77   | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 90               |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 100              |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-37503/3-A

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1041              |                   | mg/Kg |   | 104  | 70 - 130       | 19  | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 902.2             |                   | mg/Kg |   | 90   | 70 - 130       | 15  | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 99                |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 110               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-3240-A-2-C MS

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                   | 998            | 1086         |                 | mg/Kg |   | 109  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                   | 998            | 781.6        |                 | mg/Kg |   | 76   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 82               |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 84               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

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

Lab Sample ID: 890-3240-A-2-D MSD

Matrix: Solid

Analysis Batch: 37444

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37503

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 1014       |               | mg/Kg |   | 102  | 70 - 130    | 7   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 998         | 762.1      |               | mg/Kg |   | 74   | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 79            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 81            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37511/1-A

Matrix: Solid

Analysis Batch: 37598

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 |   |          | 10/23/22 19:22 | 1       |

Lab Sample ID: LCS 880-37511/2-A

Matrix: Solid

Analysis Batch: 37598

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 259.6      |               | mg/Kg |   | 104  | 90 - 110    |

Lab Sample ID: LCSD 880-37511/3-A

Matrix: Solid

Analysis Batch: 37598

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         | 259.0       |                | mg/Kg |   | 104  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-3239-A-1-B MS

Matrix: Solid

Analysis Batch: 37598

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 | 1220          |                  | 1240        | 2517      |              | mg/Kg |   | 105  | 90 - 110    |

Lab Sample ID: 890-3239-A-1-C MSD

Matrix: Solid

Analysis Batch: 37598

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 | 1220          |                  | 1240        | 2519       |               | mg/Kg |   | 105  | 90 - 110    | 0   | 20        |

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QC Sample Results

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Method: 300.0 - Anions, Ion Chromatography (Continued)

|                                  |               |                  |             |           |              |       |   |      |             |                                |  |  |  |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--------------------------------|--|--|--|
| Lab Sample ID: 890-3240-A-3-C MS |               |                  |             |           |              |       |   |      |             | Client Sample ID: Matrix Spike |  |  |  |
| Matrix: Solid                    |               |                  |             |           |              |       |   |      |             | Prep Type: Soluble             |  |  |  |
| Analysis Batch: 37598            |               |                  |             |           |              |       |   |      |             |                                |  |  |  |
| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |                                |  |  |  |
| Chloride                         | 1120          |                  | 248         | 1334      | 4            | mg/Kg |   | 87   | 90 - 110    |                                |  |  |  |

|                                   |               |                  |             |            |               |       |   |      |             |  |           |  |  |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|--|-----------|--|--|
| Lab Sample ID: 890-3240-A-3-D MSD |               |                  |             |            |               |       |   |      |             | Client Sample ID: Matrix Spike Duplicate |           |  |  |
| Matrix: Solid                     |               |                  |             |            |               |       |   |      |             | Prep Type: Soluble                       |           |  |  |
| Analysis Batch: 37598             |               |                  |             |            |               |       |   |      |             |  |           |  |  |
| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD                                      | RPD Limit |  |  |
| Chloride                          | 1120          |                  | 248         | 1329       | 4             | mg/Kg |   | 85   | 90 - 110    | 0  | 20        |  |  |

## QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

## GC VOA

## Prep Batch: 37911

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3242-1          | PH03                   | Total/NA  | Solid  | 5035   |            |
| 890-3242-2          | PH03                   | Total/NA  | Solid  | 5035   |            |
| 890-3242-3          | PH03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-37911/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-37911/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-37911/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-20605-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-20605-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 38021

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-38021/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 38089

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3242-1          | PH03                   | Total/NA  | Solid  | 8021B  | 37911      |
| 890-3242-2          | PH03                   | Total/NA  | Solid  | 8021B  | 37911      |
| 890-3242-3          | PH03                   | Total/NA  | Solid  | 8021B  | 37911      |
| MB 880-37911/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 37911      |
| MB 880-38021/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 38021      |
| LCS 880-37911/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 37911      |
| LCSD 880-37911/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 37911      |
| 880-20605-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 37911      |
| 880-20605-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 37911      |

## Analysis Batch: 38188

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3242-1    | PH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-3242-2    | PH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-3242-3    | PH03             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 37444

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3242-1         | PH03                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3242-2         | PH03                   | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3242-3         | PH03                   | Total/NA  | Solid  | 8015B NM | 37503      |
| MB 880-37503/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 37503      |
| LCS 880-37503/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 37503      |
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-A-2-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 37503      |
| 890-3240-A-2-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 37503      |

## Prep Batch: 37503

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-3242-1        | PH03               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3242-2        | PH03               | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3242-3        | PH03               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-37503/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-37503/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

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QC Association Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

GC Semi VOA (Continued)

Prep Batch: 37503 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-37503/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-A-2-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3240-A-2-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

Analysis Batch: 37629

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3242-1    | PH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-3242-2    | PH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-3242-3    | PH03             | Total/NA  | Solid  | 8015 NM |            |

HPLC/IC

Leach Batch: 37511

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3242-1         | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-3242-2         | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-3242-3         | PH03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3239-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3239-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 890-3240-A-3-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3240-A-3-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

Analysis Batch: 37598

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3242-1         | PH03                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3242-2         | PH03                   | Soluble   | Solid  | 300.0  | 37511      |
| 890-3242-3         | PH03                   | Soluble   | Solid  | 300.0  | 37511      |
| MB 880-37511/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 37511      |
| LCS 880-37511/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 37511      |
| LCSD 880-37511/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 37511      |
| 890-3239-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 37511      |
| 890-3239-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-A-3-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 37511      |
| 890-3240-A-3-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 37511      |

## Lab Chronicle

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Client Sample ID: PH03

Lab Sample ID: 890-3242-1

Date Collected: 10/19/22 12:00

Matrix: Solid

Date Received: 10/20/22 09:58

| 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         | 37911        | 10/26/22 14:13       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 38089        | 10/29/22 02:15       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38188        | 10/30/22 21:36       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37629        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 23:36       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 37598        | 10/23/22 21:23       | CH      | EET MID |

Client Sample ID: PH03

Lab Sample ID: 890-3242-2

Date Collected: 10/19/22 12:15

Matrix: Solid

Date Received: 10/20/22 09:58

| 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         | 37911        | 10/26/22 14:13       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 38089        | 10/29/22 02:36       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38188        | 10/30/22 21:36       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37629        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/21/22 23:57       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          | 50 mL          | 50 mL        | 37598        | 10/23/22 21:28       | CH      | EET MID |

Client Sample ID: PH03

Lab Sample ID: 890-3242-3

Date Collected: 10/19/22 12:30

Matrix: Solid

Date Received: 10/20/22 09:58

| 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         | 37911        | 10/26/22 14:13       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 38089        | 10/29/22 02:56       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 38188        | 10/30/22 21:36       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 37629        | 10/24/22 09:48       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 37503        | 10/21/22 13:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 37444        | 10/22/22 00:18       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 37511        | 10/21/22 14:12       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         | 50 mL          | 50 mL        | 37598        | 10/23/22 21:33       | CH      | EET MID |

## Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum  
Project/Site: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

| 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: Elvis Injection Line

Job ID: 890-3242-1  
SDG: 03D2057011

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3242-1    | PH03             | Solid  | 10/19/22 12:00 | 10/20/22 09:58 | 1'    |
| 890-3242-2    | PH03             | Solid  | 10/19/22 12:15 | 10/20/22 09:58 | 8'    |
| 890-3242-3    | PH03             | Solid  | 10/19/22 12:30 | 10/20/22 09:58 | 15'   |

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



## Environment Testing Xenco

## Chain of Custody

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


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

[www.xenco.com](http://www.xenco.com)

Page 2 of 2

|                  |                               |                         |                               |
|------------------|-------------------------------|-------------------------|-------------------------------|
| Project Manager: | Kalei Jennings                | Bill to: (if different) | Kalei Jennings                |
| Company Name:    | Ensolum, LLC                  | Company Name:           | Ensolum, LLC                  |
| Address:         | 601 N Marienfeld St Suite 400 | Address:                | 601 N Marienfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701             | City, State ZIP:        | Midland, TX 79701             |
| Phone:           |                               | Email:                  | kiennings@ensolum.com         |

| Work Order Comments   |  |
|---|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b><br>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"/><br><b>Deliverables:</b> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other. |  |

|                          |  |   |              |  |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
|--------------------------|--|---|--------------|--|-------|---|-----------|---|---|---|--|--|--|--|--|---|--|-----------------|--|--|--|--|
| Project Name:            |  | Elvis Injection Line  |              | Turn Around  |       | ANALYSIS REQUEST  |           |   |   |   |  |  |  |  |  | Preservative Codes  |  |                 |  |  |  |  |
| Project Number:          |  | 03D2057011  |              | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush    |       | <div style="display: flex; justify-content: space-between;"> <div> <div>Pres. Code</div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> |           |   |   |   |  |  |  |  |  | None: NO      DI Water: H <sub>2</sub> O<br>Cool: Cool      MeOH: Me<br>HCL: HC      HNO <sub>3</sub> : HN<br>H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na<br>H <sub>3</sub> PO <sub>4</sub> : HP<br>NaHSO <sub>4</sub> : NABIS<br>Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub><br>Zn Acetate+NaOH: Zn<br>NaOH+Ascorbic Acid: SAPC |  |                 |  |  |  |  |
| Project Location:        |  |   |              | Due Date:  |       | <div style="text-align: center;"> <br/>           890-3242 Chain of Custody         </div>   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Sampler's Name:          |  | Conner Shore  |              | TAT starts the day received by the lab, if received by 4:30pm                |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| PO #:                    |  |   |              |  |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
|                          |  |   |              |  |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| SAMPLE RECEIPT           |  | Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |              | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |       | <div style="display: flex; justify-content: space-between;"> <div> <div>Parameters</div> <div></div> </div> <div> <div>CHLORIDES (EPA: 300.0)</div> <div></div> </div> <div> <div>TPH (8015)</div> <div></div> </div> <div> <div>BTEX (8021)</div> <div></div> </div> </div>  |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Samples Received Intact: |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No             |              | Thermometer ID: T.M. 2007  |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Cooler Custody Seals:    |  | Yes No N/A  |              | Correction Factor: -0.2  |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Sample Custody Seals:    |  | Yes No N/A  |              | Temperature Reading: 3.8   |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Total Containers:        |  |   |              | Corrected Temperature: 3.6   |       |   |           |   |   |   |  |  |  |  |  |   |  |                 |  |  |  |  |
| Sample Identification    |  | Matrix  | Date Sampled | Time Sampled   | Depth | Grab/Comp   | # of Cont |   |   |   |  |  |  |  |  |   |  | Incident Number |  |  |  |  |
| PH03                     |  | S   | 10.19.22     | 1200   | 1'    | G   | 1         | X | X | X |  |  |  |  |  |   |  |                 |  |  |  |  |
| PH03                     |  | S   | 10.19.22     | 1215   | 8'    | G   | 1         | X | X | X |  |  |  |  |  |   |  |                 |  |  |  |  |
| PH03                     |  | S   | 10.19.22     | 1230   | 15'   | 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 |

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time            | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|----------------------|------------------------------|--------------------------|-----------|
| 1 <i>CS</i>                  | <i>Amanda Stief</i>      | <i>10/20/22 9:38</i> |                              |                          |           |
| 3                            |                          |                      | 4                            |                          |           |
| 5                            |                          |                      | 6                            |                          |           |

Revised Date: 08/25/2020 Rev. 2020.2

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3242-1

SDG Number: 03D2057011

Login Number: 3242

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3242-1

SDG Number: 03D2057011

Login Number: 3242

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/21/22 10:46 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    |         |



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 15, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/12/23 14:04.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 12/12/2023  
 Reported: 12/15/2023  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/07/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 01 @ 0-4' (H236619-01)**

| 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            | 12/13/2023 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SW 02 @ 0-4' (H236619-02)**

| 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            | 12/13/2023 | ND              | 432 | 108        | 400           | 3.64 |           |

Cardinal Laboratories

\*=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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager

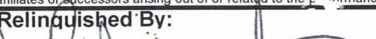
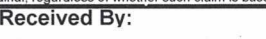



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |  |                    |  |   |  |  |  |   |  |   |  |                 |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--------------------|--|---|--|--|--|---|--|---|--|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <b>Enbolum, LLC</b><br>Project Manager: <b>Aimee Cole</b><br>Address: <b>8172 Natl Parksway</b><br>City: <b>Durham</b> State: <b>NC</b> Zip: <b>27702</b><br>Phone #:                      Fax #:<br>Project #: <b>0802057011</b> Project Owner: <b>Mowbrick</b><br>Project Name: <b>Elvis injection line</b><br>Project Location: <b>32.820866, -103.79382</b><br>Sampler Name: <b>Julianna Faldum</b> |  |                    |  | <b>BILL TO</b><br>P.O. #:<br>Company: <b>A.A.</b><br>Attn:<br>Address:<br>City:<br>State:                      Zip:<br>Phone #:<br>Fax #: |  |  |  | <b>ANALYSIS REQUEST</b>                               |  |   |  |                 |  |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY<br><b>Lab I.D.</b>   |  | <b>Sample I.D.</b> |  | <b>MATRIX</b><br>(G)RAB OR (C)OMP. # CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER:                           |  |  |  | <b>PRESERV.</b><br>ACID/BASE:<br>ICE / COOL<br>OTHER: |  | <b>SAMPLING</b><br>DATE                      TIME |  | <b>on order</b> |  |  |  |  |  |  |  |  |  |  |  |
| <b>1 SW07 @ 0-4'</b><br><b>2 SW02 @ 0-4'</b>  |  | 1<br>2             |  | X<br>X  |  |  |  | X<br>X  |  | 2/7/23 1200<br>2/7/23 1205                        |  | X<br>X          |  |  |  |  |  |  |  |  |  |  |  |

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|   |                          |   |  |   |
|---|--------------------------|---|--|---|
| Relinquished By:  |                          | Date: 12-12-23  | Received By:  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:  |
| Time: 14:04   |                          |   |  | All Results are emailed. Please provide Email address:  |
| Relinquished By:  |                          | Date:   | Received By:   | REMARKS: acola@ensolum.com, chavez@ensolum.com  |
|   |                          | Time:   |  | nAPP 2B642290   |
| Delivered By: (Circle One)  | Observed Temp. °C 0-50°C | Sample Condition  | CHECKED BY: (Initials)   | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>   |
| Sampler - UPS - Bus - Other:  | Corrected Temp. °C       | Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |              | Bacteria (only) Sample Condition  |
|   |                          |   |  | Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C |
|   |                          |   |  | Thermometer ID #140 Correction Factor 0°C   |
|   |                          |   |  | Corrected Temp. °C  |

~~FORM-006 R 3.4 07/11/23~~

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 18, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/13/23 15:42.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                  |
|-------------------|---------------------------------|---------------------|------------------|
| Received:         | 12/13/2023                      | Sampling Date:      | 12/12/2023       |
| Reported:         | 12/18/2023                      | Sampling Type:      | Soil             |
| Project Name:     | ELVIS INJECTION LINE            | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03D2057011                      | Sample Received By: | Shalyn Rodriguez |
| Project Location: | MAVERICK 32.820368, -103.789382 |                     |                  |

**Sample ID: SW 03 @ 0-4' (H236664-01)**

| 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            | 12/14/2023 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SW 04 @ 0-4' (H236664-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SS 01 @ 0.5' (H236664-03)**

| 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            | 12/14/2023 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SS 02 @ 0.5' (H236664-04)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 880    | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 0.00 |           |

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  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 12/13/2023  
 Reported: 12/18/2023  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 03 @ 0.5' (H236664-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 0.00 |           |  |

**Sample ID: SS 04 @ 0.5' (H236664-06)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1100   | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: SS 05 @ 0.5' (H236664-07)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: SS 06 @ 0.5' (H236664-08)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: SS 07 @ 0.5' (H236664-09)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 176    | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

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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  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 12/13/2023  
 Reported: 12/18/2023  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 08 @ 0.5' (H236664-10)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: SS 09 @ 0.5' (H236664-11)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: SS 10 @ 0.5' (H236664-12)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 12/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "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: <u>Ensochem LLC</u>                           |             |                  |              | <b>BILL TO</b> |            |          |     | <b>ANALYSIS REQUEST</b> |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Project Manager: <u>Aimee Cole</u>                          |             |                  |              | P.O. #:        |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Address: <u>3122 Nannonal Parks Hwy</u>                     |             |                  |              | Company:       |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>    |             |                  |              | Attn:          |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Phone #: <u>720-384-7365</u> Fax #:                         |             |                  |              | Address:       |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Project #: <u>0302057011</u> Project Owner: <u>Maverick</u> |             |                  |              | City:          |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Project Name: <u>Elvis Injection Line</u>                   |             |                  |              | State: Zip:    |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Project Location: <u>32.820368, -103.789382</u>             |             |                  |              | Phone #:       |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Sampler Name: <u>Ronni Hayes</u>                            |             |                  |              | Fax #:         |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |             |                  |              | MATRIX         |            | PRESERV. |     | SAMPLING                |       |  |  |  |          |      |  |  |  |  |  |  |  |
| Lab I.D.  | Sample I.D. | (GRAB OR (C)OMP. | # CONTAINERS | GROUNDWATER    | WASTEWATER | SOIL     | OIL | SLUDGE                  | OTHER |  |  |  |          |      |  |  |  |  |  |  |  |
| <u>H2316104</u>   |             |                  |              |                |            |          |     |                         |       |  |  |  |          |      |  |  |  |  |  |  |  |
| 1   | SW03 @ 0.4' | C                | 1            |                |            |          |     |                         |       |  |  |  | 12/12/23 | 0920 |  |  |  |  |  |  |  |
| 2   | SW04 @ 0.4' | C                | 1            |                |            |          |     |                         |       |  |  |  | 12/13/23 | 1655 |  |  |  |  |  |  |  |
| 3   | SS01 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1216 |  |  |  |  |  |  |  |
| 4   | SS02 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1218 |  |  |  |  |  |  |  |
| 5   | SS03 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1222 |  |  |  |  |  |  |  |
| 6   | SS04 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1315 |  |  |  |  |  |  |  |
| 7   | SS05 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1220 |  |  |  |  |  |  |  |
| 8   | SS06 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1308 |  |  |  |  |  |  |  |
| 9   | SS07 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1306 |  |  |  |  |  |  |  |
| 10  | SS08 @ 0.5' | G                | 1            |                |            |          |     |                         |       |  |  |  |          | 1302 |  |  |  |  |  |  |  |

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|                                     |  |                               |  |                                |   |  |
|-------------------------------------|--|-------------------------------|--|--------------------------------|---|--|
| Relinquished By: <u>[Signature]</u> |  | Date: <u>12-13-23</u>         | Received By: <u>[Signature]</u>                                      |                                | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:      |  |
| Relinquished By: <u>[Signature]</u> |  | Date: <u>12-13-23</u>         | Received By: <u>[Signature]</u>                                      |                                | All Results are emailed. Please provide Email address: <u>acole@ensolum.com</u>             |  |
| Relinquished By: <u>[Signature]</u> |  | Date: <u>12-13-23</u>         | Received By: <u>[Signature]</u>                                      |                                | REMARKS:  |  |
| Delivered By: (Circle One)          |  | Observed Temp. °C <u>5.02</u> | Sample Condition   | CHECKED BY: <u>[Signature]</u> | Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush |  |
| Sampler - UPS - Bus - Other:        |  | Corrected Temp. °C            | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | (Initials)                     | Thermometer ID #140   |  |
|                                     |  |                               | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No |                                | Correction Factor 0°C   |  |
|                                     |  |                               |  |                                | Bacteria (only) Sample Condition  |  |
|                                     |  |                               |  |                                | Cool Intact Observed Temp. °C   |  |
|                                     |  |                               |  |                                | Corrected Temp. °C  |  |

FORM-006 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



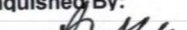




101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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|   |                    |   |  |  |   |
|---|--------------------|---|--|--|---|
| Relinquished By:  |                    | Date:   | Received By:   | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |   |
|  |                    | Time:   |   | All Results are emailed. Please provide Email address:                                 |   |
| Relinquished By:  |                    | Date:   |  | a.cole@ensolum.com   |   |
| Date:   |                    | Received By:  | REMARKS:   |  |   |
| Time:   |                    |   |  |  |   |
| Delivered By: (Circle One)  | Observed Temp. °C  | Sample Condition  | CHECKED BY:  | Turnaround Time:   | Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition |
| Sampler - UPS - Bus - Other:  | Corrected Temp. °C | Cool Intact   | (Initials)   | Rush <input type="checkbox"/>  | Cool Intact Observed Temp. °C   |
|   |                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  | Thermometer ID #140  | <input type="checkbox"/> Yes <input type="checkbox"/> Yes                     |
|   |                    | <input type="checkbox"/> No <input type="checkbox"/> No             |  | Correction Factor 0°C  | <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C    |



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 19, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 11:03.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 12/15/2023  
 Reported: 12/19/2023  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 05 @ 0-4' (H236688-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 12/15/2023 | ND              | 416 | 104        | 400           | 6.74 |           |  |

**Sample ID: SW - 06 @ 0-4' (H236688-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 12/15/2023 | ND              | 416 | 104        | 400           | 6.74 |           |  |

**Sample ID: SW - 07 @ 0-4' (H236688-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 272    | 16.0            | 12/15/2023 | ND              | 416 | 104        | 400           | 6.74 |           |  |

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

---

**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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

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A handwritten signature in black ink, appearing to read "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

Page 4 of 4

|  |                    |                   |              |                |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
|--|--------------------|-------------------|--------------|----------------|------------|----------|-----|-------------------------|-------|-----------|-----------------|-------------|----------|------|--|--|--|--|--|--|--|--|
| Company Name: <u>Ensolum LLC</u>                           |                    |                   |              | <b>BILL TO</b> |            |          |     | <b>ANALYSIS REQUEST</b> |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Project Manager: <u>Alireh Gole</u>                        |                    |                   |              | P.O. #:        |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Address: <u>3122 Maximal Park Hwy</u>                      |                    |                   |              | Company:       |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>   |                    |                   |              | Attn:          |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Phone #: <u>720-384-7305</u> Fax #:                        |                    |                   |              | Address:       |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Project #: <u>0307057011</u> Project Owner: <u>Mancera</u> |                    |                   |              | City:          |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Project Name: <u>Elvis Injection Line</u>                  |                    |                   |              | State: Zip:    |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Project Location: <u>32.820368, -103.789382</u>            |                    |                   |              | Phone #:       |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Sampler Name: <u>Pym Hays</u>                              |                    |                   |              | Fax #:         |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY   |                    |                   |              | MATRIX         |            | PRESERV. |     | SAMPLING                |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| Lab I.D.   | Sample I.D.        | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER    | WASTEWATER | SOIL     | OIL | SLUDGE                  | OTHER | ACID/BASE | ICE / COOL      | OTHER       | DATE     | TIME |  |  |  |  |  |  |  |  |
| <u>H230688</u>   |                    |                   |              |                |            |          |     |                         |       |           |                 |             |          |      |  |  |  |  |  |  |  |  |
| <u>1</u>   | <u>SW05 @ 0-4'</u> | <u>C</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |       | <u>X</u>  | <u>12/14/23</u> | <u>0903</u> | <u>X</u> |      |  |  |  |  |  |  |  |  |
| <u>2</u>   | <u>SW06 @ 0-4'</u> | <u>C</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |       | <u>X</u>  | <u>0909</u>     |             | <u>X</u> |      |  |  |  |  |  |  |  |  |
| <u>3</u>   | <u>SW07 @ 0-4'</u> | <u>C</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |       | <u>X</u>  | <u>12/15/23</u> | <u>0917</u> | <u>X</u> |      |  |  |  |  |  |  |  |  |

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|                                     |                              |  |   |   |  |                    |
|-------------------------------------|------------------------------|--|---|---|--|--------------------|
| Relinquished By: <u>[Signature]</u> |                              | Date: <u>12-15-23</u>  | Received By: <u>[Signature]</u>           |   | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |                    |
| Time: <u>1103</u>                   |                              | Time: <u>1103</u>  |   | All Results are emailed. Please provide Email address:  |  |                    |
| Relinquished By:                    |                              | Date:  | Received By:                              |   | REMARKS:   |                    |
| Time:                               |                              |  |   |   |  |                    |
| Delivered By: (Circle One)          | Observed Temp. °C <u>2.2</u> | Sample Condition   | CHECKED BY: (Initials) <u>[Signature]</u> | Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> | Bacteria (only) Sample Condition   |                    |
| Sampler - UPS - Bus - Other:        | Corrected Temp. °C           | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No |   | Thermometer ID #140   | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No                   | Observed Temp. °C  |
|                                     |                              | <input type="checkbox"/> Yes <input type="checkbox"/> No             |   | Correction Factor 0°C   | <input type="checkbox"/> No <input type="checkbox"/> No                                | Corrected Temp. °C |

FORM-006 R 3.4-07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 21, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 12/19/2023  
 Reported: 12/21/2023  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 11 @ 0.5' (H236746-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

**Sample ID: SS 12 @ 0.5' (H236746-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

**Sample ID: SS 13 @ 0.5' (H236746-03)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

**Sample ID: SS 14 @ 0.5' (H236746-04)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
AIMEE COLE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2023  
Reported: 12/21/2023  
Project Name: ELVIS INJECTION LINE  
Project Number: 03D2057011  
Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/18/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 15 @ 0.5' (H236746-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

**Sample ID: SW 08 @ 0-4' (H236746-06)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/20/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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: <u>Ensolum LLC</u>                            |                     |                   |              | <b>BILL TO</b> |            |          |     | <b>ANALYSIS REQUEST</b> |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Project Manager: <u>Aimee Cole</u>                          |                     |                   |              | P.O. #:        |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Address: <u>3122 National Parks Hwy</u>                     |                     |                   |              | Company:       |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>    |                     |                   |              | Attn:          |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Phone #: <u>720-384-7365</u> Fax #:                         |                     |                   |              | Address:       |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Project #: <u>03D7057011</u> Project Owner: <u>Maverich</u> |                     |                   |              | City:          |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Project Name: <u>Elvis Injection Line</u>                   |                     |                   |              | State: Zip:    |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Project Location: <u>32.820368, -103.789382</u>             |                     |                   |              | Phone #:       |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Sampler Name: <u>Ronni Hayes</u>                            |                     |                   |              | Fax #:         |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |                     |                   |              | MATRIX         |            | PRESERV. |     | SAMPLING                |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| Lab I.D.  | Sample I.D.         | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER    | WASTEWATER | SOIL     | OIL | SLUDGE                  | OTHER |          |                 |             |          |  |  |  |  |  |  |  |  |
| <u>H236746</u>  |                     |                   |              |                |            |          |     |                         |       |          |                 |             |          |  |  |  |  |  |  |  |  |
| <u>1</u>  | <u>SS11 @ 0.5'</u>  | <u>G</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |       | <u>X</u> | <u>12/18/23</u> | <u>0855</u> | <u>X</u> |  |  |  |  |  |  |  |  |
| <u>2</u>  | <u>SS12 @ 0.5'</u>  | <u>G</u>          |              |                |            |          |     |                         |       |          |                 | <u>0905</u> |          |  |  |  |  |  |  |  |  |
| <u>3</u>  | <u>SS13 @ 0.5'</u>  | <u>G</u>          |              |                |            |          |     |                         |       |          |                 | <u>0920</u> |          |  |  |  |  |  |  |  |  |
| <u>4</u>  | <u>SS14 @ 0.5'</u>  | <u>G</u>          |              |                |            |          |     |                         |       |          |                 | <u>0924</u> |          |  |  |  |  |  |  |  |  |
| <u>5</u>  | <u>SS15 @ 0.5'</u>  | <u>G</u>          |              |                |            |          |     |                         |       |          |                 | <u>1120</u> |          |  |  |  |  |  |  |  |  |
| <u>6</u>  | <u>SW 68 @ 0-4'</u> | <u>C</u>          |              |                |            |          |     |                         |       |          |                 | <u>1125</u> |          |  |  |  |  |  |  |  |  |

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|                                     |  |  |  |
|-------------------------------------|--|--|--|
| Relinquished By: <u>[Signature]</u> | Date: <u>12-19-23</u><br>Time: <u>1137</u> | Received By: <u>[Signature]</u>  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:   |
| Relinquished By:                    | Date:                                      | Received By:   | All Results are emailed. Please provide Email address:<br><u>acole@ensolum.com</u>   |
| Delivered By: (Circle One)          | Observed Temp. °C <u>5.7</u>               | Sample Condition<br>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | REMARKS:   |
| Sampler - UPS - Bus - Other:        | Corrected Temp. °C                         | CHECKED BY: (Initials) <u>[Signature]</u>  | Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>  |
|                                     |  |  | Bacteria (only) Sample Condition<br>Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |
|                                     |  |  | Thermometer ID #140<br>Correction Factor 0°C   |

FORM-000 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 29, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
AIMEE COLE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/22/2023  
Reported: 12/29/2023  
Project Name: ELVIS INJECTION LINE  
Project Number: 03D2057011  
Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 12/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shari Cisneros

**Sample ID: SW 10 @ 0-4' (H236823-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: HM**

| Analyte         | Result      | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
|-----------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| <b>Chloride</b> | <b>32.0</b> | 16.0            | 12/28/2023 | ND           | 432 | 108        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager

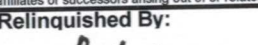





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|  |  |                    |   |   |  |
|--|--|--------------------|---|---|--|
| Relinquished By:   |  | Date:              | Received By:  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: |  |
|  |  | Time:              |  | All Results are emailed. Please provide Email address:  |  |
| Relinquished By:   |  | Time:              |   |                            |  |
| Delivered By: (Circle One)   |  | Observed Temp. °C  | Sample Condition  | CHECKED BY:   | Turnaround Time:   |
| Sampler - UPS - Bus - Other:   |  | Corrected Temp. °C | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | (Initials)  | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
|  |  |                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                 |                             | Thermometer ID #140  |
|  |  |                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                 |   | Correction Factor 0°C  |
|  |  |                    |   |   | Bacteria (only) Sample Condition   |
|  |  |                    |   |   | Cool Intact Observed Temp. °C  |
|  |  |                    |   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No                   |
|  |  |                    |   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No                   |
|  |  |                    |   |   | Corrected Temp. °C   |

~~FORM-006 R 3.4 07/11/23~~

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 27, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/21/23 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 12/21/2023                      | Sampling Date:      | 12/20/2023     |
| Reported:         | 12/27/2023                      | Sampling Type:      | Soil           |
| Project Name:     | ELVIS INJECTION LINE            | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03D2057011                      | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.820368, -103.789382 |                     |                |

**Sample ID: SW 09 @ 0-4' (H236804-01)**

| 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            | 12/22/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SS 16 @ 0.5' (H236804-02)**

| 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            | 12/22/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SS 17 @ 0.5' (H236804-03)**

| 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            | 12/22/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SS 18 @ 0.5' (H236804-04)**

| 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            | 12/22/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

|   |                      |                   |              |                |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
|---|----------------------|-------------------|--------------|----------------|------------|----------|-----|-------------------------|--------|------------|------------|--------|-----------------|-------------|----------|--|--|--|--|--|--|--|--|
| Company Name: <u>Ensolium LLC</u>                           |                      |                   |              | <b>BILL TO</b> |            |          |     | <b>ANALYSIS REQUEST</b> |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Project Manager: <u>Ainee Cole</u>                          |                      |                   |              | P.O. #:        |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Address: <u>3122 National Parks Hwy</u>                     |                      |                   |              | Company:       |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>    |                      |                   |              | Attn:          |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Phone #: <u>720-384-7365</u> Fax #:                         |                      |                   |              | Address:       |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Project #: <u>03P2057011</u> Project Owner: <u>Maverick</u> |                      |                   |              | City:          |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Project Name: <u>Elvis Imposition Line</u>                  |                      |                   |              | State: Zip:    |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Project Location: <u>32.820368, -103.789382</u>             |                      |                   |              | Phone #:       |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Sampler Name: <u>Ronni Hayes</u>                            |                      |                   |              | Fax #:         |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |                      |                   |              | MATRIX         |            | PRESERV. |     | SAMPLING                |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |
| Lab I.D.  | Sample I.D.          | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER    | WASTEWATER | SOIL     | OIL | SLUDGE                  | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE            | TIME        |          |  |  |  |  |  |  |  |  |
| <u>H236804</u>  | <u>* SW09 @ 0.4'</u> | <u>C</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |        | <u>X</u>   | <u>X</u>   |        | <u>12/20/23</u> | <u>1600</u> | <u>X</u> |  |  |  |  |  |  |  |  |
| <u>1</u>  | <u>SS16 @ 0.5'</u>   | <u>G</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |        | <u>X</u>   | <u>X</u>   |        | <u>12/21/23</u> | <u>0925</u> | <u>X</u> |  |  |  |  |  |  |  |  |
| <u>2</u>  | <u>SS17 @ 0.5'</u>   | <u>G</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |        | <u>X</u>   | <u>X</u>   |        | <u>↓</u>        | <u>0930</u> | <u>X</u> |  |  |  |  |  |  |  |  |
| <u>3</u>  | <u>SS18 @ 0.5'</u>   | <u>G</u>          | <u>1</u>     |                |            | <u>X</u> |     |                         |        | <u>X</u>   | <u>X</u>   |        | <u>↓</u>        | <u>0935</u> | <u>X</u> |  |  |  |  |  |  |  |  |
| <u>4</u>  |                      |                   |              |                |            |          |     |                         |        |            |            |        |                 |             |          |  |  |  |  |  |  |  |  |

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|                                     |                             |  |   |
|-------------------------------------|-----------------------------|--|---|
| Relinquished By: <u>[Signature]</u> | Date: <u>12-21-23</u>       | Received By: <u>[Signature]</u>  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:  |
| Relinquished By:                    | Date: <u>1/11/24</u>        | Received By:   | All Results are emailed. Please provide Email address: <u>acele@ensolium.com</u>  |
| Time:                               | Time:                       | Time:  | REMARKS: <u>* Customer requested Depth changes.</u>   |
| Delivered By: (Circle One)          | Observed Temp. °C <u>50</u> | Sample Condition   | Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush   |
| Sampler - UPS - Bus - Other:        | Corrected Temp. °C          | <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Bacteria (only) Sample Condition<br><input type="checkbox"/> Cool <input type="checkbox"/> Intact<br><input type="checkbox"/> Yes <input type="checkbox"/> No |
| FORM-006 R 3.4 07/11/23             |                             | CHECKED BY: (Initials) <u>[Signature]</u>  | Thermometer ID #140<br>Correction Factor 0°C  |

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 04, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/03/24 12:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 01/03/2024  
 Reported: 01/04/2024  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 01/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 02 1' (H240026-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 01/04/2024 | ND              | 448 | 112        | 400           | 3.51 |           |

**Sample ID: SS 04 1' (H240026-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 01/04/2024 | ND              | 448 | 112        | 400           | 3.51 |           |

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 08, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/24 12:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 01/04/2024                      | Sampling Date:      | 01/04/2024     |
| Reported:         | 01/08/2024                      | Sampling Type:      | Soil           |
| Project Name:     | ELVIS INJECTION LINE            | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03D2057011                      | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.820368, -103.789382 |                     |                |

**Sample ID: SW 11 0-4' (H240034-01)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SW 12 0-4' (H240034-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SS 19 0.5' (H240034-03)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SS 20 0.5' (H240034-04)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

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  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 01/04/2024  
 Reported: 01/08/2024  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 01/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 21 0.5' (H240034-05)**

| Chloride, SM4500Cl-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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

**Sample ID: SS 22 0.5' (H240034-06)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

**Sample ID: SS 23 0.5' (H240034-07)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SS 24 0.5' (H240034-08)**

| 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            | 01/05/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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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

Company Name: Ensolum, LLC

Project Manager: Arnee Cole

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 720 304 7365 Fax #:

Project #: 6302057011 Project Owner: Maverick

Project Name: Elvis Injection Line

Project Location: 32. 820368, -103. 789382

Sampler Name: Bonni Hayes

## BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth  
(feet)

(G)RAB OR (C)OMP.

# CONTAINERS

MATRIX

PRESERV

SAMPLING

H240034

SW11

0-4'

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

1

SW12

0-4'

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

2

SS19

0-5'

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

3

SS20

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

4

SS21

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

5

SS22

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

6

SS23

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

7

SS24

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8

SS24

↓

(G)

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY:

(Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

acole@ensolum.com

REMARKS:

Turnaround Time:

Standard

Rush

Thermometer ID

Correction Factor

Bacteria (only)

Cool Intact

Yes Yes

No No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to cole.y.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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January 10, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 8:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
AIMEE COLE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 01/09/2024                      | Sampling Date:      | 01/08/2024     |
| Reported:         | 01/10/2024                      | Sampling Type:      | Soil           |
| Project Name:     | ELVIS INJECTION LINE            | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03D2057011                      | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.820368, -103.789382 |                     |                |

**Sample ID: PH 03 0.5' (H240074-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 576    | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: PH 03 4' (H240074-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 304    | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

Cardinal Laboratories

\*=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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "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: Aimee Cole  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 720-384-7305 Fax #:  
 Project #: 0302057011 Project Owner: Mamarich  
 Project Name: Elvis Injection Line  
 Project Location: 32.820368, -103.789382  
 Sampler Name: Ronni Hlyer

**BILL TO**

**ANALYSIS REQUEST**

| FOR LAB USE ONLY |             | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        | PRESERV. |            | SAMPLING   |         | DATE   | TIME |   |
|------------------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|------------|------------|---------|--------|------|---|
| Lab I.D.         | Sample I.D. |              |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER :  | ACID/BASE: | ICE / COOL | OTHER : |        |      |   |
| H240074          | PH03        | 0.5'         | G                 | 1            |             |            |      |     |        |          |            |            |         | 1/8/24 | 1143 | x |
| 2                | PH03        | 4'           | G                 | 1            |             |            |      |     |        |          |            |            |         | ↓      | 1150 | x |

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Relinquished By: [Signature] Date: 1-9-24 Received By: [Signature] Verbal Result: ☐ Yes ☐ No Add'l Phone #:  
 Relinquished By: [Signature] Date: 0852 Received By: [Signature] All Results are emailed. Please provide Email address:  
 acole@ensolum.com  
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C 1.0 Sample Condition Cool Intact CHECKED BY: (Initials) Turnaround Time: Standard ☒ Bacteria (only) Sample Condition  
 Sampler - UPS - Bus - Other: Corrected Temp. °C Yes ☒ No ☐ Yes ☐ No Cool Intact Observed Temp. °C  
 Thermometer ID #448 #140 To: Correction Factor -0.5°C Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3-2 10/07/21  
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

January 10, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 01/05/2024  
 Reported: 01/10/2024  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 01/05/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: PH02 13' (H240055-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 01/08/2024 | ND              | 448 | 112        | 400           | 0.00 |           |

**Sample ID: SW13 0-4' (H240055-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 01/08/2024 | ND              | 448 | 112        | 400           | 0.00 |           |

**Sample ID: SW14 0-4' (H240055-03)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 272    | 16.0            | 01/08/2024 | ND              | 448 | 112        | 400           | 0.00 |           |

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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 LCSD 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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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  |             | <b>BILL TO</b>          |                   | <b>ANALYSIS REQUEST</b>  |             |  |      |     |        |        |            |            |        |        |      |   |
| Project Manager: Anee Cole  |             | P.O. #:                 |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Address: 3122 National Parks Hwy  |             | Company:                |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| City: Carlsbad State: NM Zip: 88220   |             | Attn:                   |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Phone #: 720-384-7365 Fax #:  |             | Address:                |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Project #: 03D2057011 Project Owner: Navaroh  |             | City:                   |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Project Name: Elvis Injection Line  |             | State: Zip:             |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Project Location: 32-820368 -103,789382   |             | Phone #:                |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Sampler Name: Ronni Hays  |             | Fax #:                  |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| FOR LAB USE ONLY  |             | MATRIX                  |                   | PRESERV.   |             | SAMPLING   |      |     |        |        |            |            |        |        |      |   |
| Lab I.D.  | Sample I.D. | Depth (feet)            | (G)RAB OR (C)OMP. | # CONTAINERS   | GROUNDWATER | WASTEWATER   | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE   | TIME |   |
| 1   | PH02        | 13'                     | G                 | 1  |             |  | X    |     |        |        | X          |            |        | 1/5/24 | 1015 | X |
| 2   | SW13        | 0-4'                    | C                 | 1  |             |  | X    |     |        |        | X          |            |        | 1/5/24 | 1241 | X |
| 3   | SW14        | 0-4'                    | C                 | 1  |             |  | X    |     |        |        | X          |            |        | 1/5/24 | 1245 | X |
| <p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p> |             |                         |                   |  |             |  |      |     |        |        |            |            |        |        |      |   |
| Relinquished By: <i>[Signature]</i>   |             | Date: 1/5/24            |                   | Received By: <i>[Signature]</i>                                      |             | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:   |      |     |        |        |            |            |        |        |      |   |
| Time: 15:37   |             | Date: 1/5/24            |                   | Received By: <i>[Signature]</i>                                      |             | All Results are emailed. Please provide Email address: acole@ensolum.com   |      |     |        |        |            |            |        |        |      |   |
| Time:   |             | Date:                   |                   | Received By:   |             | REMARKS:   |      |     |        |        |            |            |        |        |      |   |
| Delivered By: (Circle One)  |             | Observed Temp. °C 36.2  |                   | Sample Condition Cool Intact   |             | CHECKED BY: (Initials) <i>[Signature]</i>  |      |     |        |        |            |            |        |        |      |   |
| Sampler - UPS - Bus - Other:  |             | Corrected Temp. °C #140 |                   | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No |             | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>  |      |     |        |        |            |            |        |        |      |   |
|   |             |                         |                   |  |             | Thermometer ID #113 Correction Factor -0.5°C   |      |     |        |        |            |            |        |        |      |   |
|   |             |                         |                   |  |             | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |      |     |        |        |            |            |        |        |      |   |

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsonm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 10, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ELVIS INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 8:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM  
 AIMEE COLE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 01/09/2024  
 Reported: 01/10/2024  
 Project Name: ELVIS INJECTION LINE  
 Project Number: 03D2057011  
 Project Location: MAVERICK 32.820368, -103.789382

Sampling Date: 01/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 15 0-4' (H240075-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SW 16 0-4' (H240075-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: PH 01 14' (H240075-03)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SS 25 0.5' (H240075-04)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 01/09/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

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

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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                                  |             |              |                   | <b>BILL TO</b> |             |            |          | <b>ANALYSIS REQUEST</b> |        |         |            |            |         |               |             |  |  |  |  |
| Project Manager: <u>Anee Cole</u>                           |             |              |                   | P.O. #:        |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Address: <u>3122 National Parks Hwy</u>                     |             |              |                   | Company:       |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>    |             |              |                   | Attn:          |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Phone #: <u>720-394-7365</u> Fax #:                         |             |              |                   | Address:       |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Project #: <u>03D2067011</u> Project Owner: <u>Maverick</u> |             |              |                   | City:          |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Project Name: <u>Elvis Injection Line</u>                   |             |              |                   | State: Zip:    |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Project Location: <u>32.820368, -103.789382</u>             |             |              |                   | Phone #:       |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Sampler Name: <u>Bonni Hayes</u>                            |             |              |                   | Fax #:         |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| FOR LAB USE ONLY  |             |              |                   |                |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| Lab I.D.  | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS   | GROUNDWATER | WASTEWATER | SOIL     | OIL                     | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE          | TIME        |  |  |  |  |
| <u>H240075</u>  |             |              |                   |                |             |            |          |                         |        |         |            |            |         |               |             |  |  |  |  |
| <u>1</u>  | <u>SWIS</u> | <u>0-4'</u>  | <u>C</u>          | <u>1</u>       |             |            | <u>X</u> |                         |        |         |            | <u>X</u>   |         | <u>1/8/24</u> | <u>1114</u> |  |  |  |  |
| <u>2</u>  | <u>SW16</u> | <u>0-4'</u>  | <u>C</u>          | <u>1</u>       |             |            |          |                         |        |         |            |            |         |               | <u>1116</u> |  |  |  |  |
| <u>3</u>  | <u>PH01</u> | <u>14'</u>   | <u>G</u>          | <u>1</u>       |             |            |          |                         |        |         |            |            |         |               | <u>1118</u> |  |  |  |  |
| <u>4</u>  | <u>SS25</u> | <u>0-5'</u>  | <u>G</u>          | <u>1</u>       |             |            |          |                         |        |         |            |            |         |               | <u>1140</u> |  |  |  |  |

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|                                     |                              |  |  |
|-------------------------------------|------------------------------|--|--|
| Relinquished By: <u>[Signature]</u> | Date: <u>1-9-24</u>          | Received By: <u>[Signature]</u>  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:   |
|                                     | Time: <u>0852</u>            |  | All Results are emailed. Please provide Email address:   |
|                                     |                              |  | <u>acole@ensolum.com</u>   |
| Relinquished By:                    | Date:                        | Received By:   | REMARKS:   |
|                                     | Time:                        |  |  |
| Delivered By: (Circle One)          | Observed Temp. °C <u>1.0</u> | Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>  |
| Sampler - UPS - Bus - Other:        | Corrected Temp. °C           | CHECKED BY: (Initials) <u>[Signature]</u>  | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |                              |  | Thermometer ID #449-#14070-1   |
|                                     |                              |  | Correction Factor -0.5°C <u>1/9/24</u>   |

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabnm.com



## APPENDIX E

### NMOCD Notifications

---

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Aimee Cole](#)  
**Cc:** [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)  
**Date:** Wednesday, November 22, 2023 1:19:37 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Hi Aimee,

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:** Aimee Cole <[acole@ensolum.com](mailto:acole@ensolum.com)>  
**Sent:** Wednesday, November 22, 2023 12:43 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of November 27, 2023.

- EVGSAU Sat 6 Mobile Tester / NAPP2304744550
  - Sampling Dates: 11/27/2023 – 11/28/2023 (between 9:00 am and 3:00 pm MT)
- Elvis Injection Line / NAPP2213642290
  - Sampling Dates: 11/29/2023 – 12/1/2023 (between 9:00 am and 3:00 pm MT)

Thank you,



**Aimee Cole**

Senior Managing Scientist

720-384-7365

**Ensolum, LLC**



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Aimee Cole](#)  
**Cc:** [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 12/4/2023)  
**Date:** Wednesday, November 29, 2023 2:52:15 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Good afternoon Aimee,

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:** Aimee Cole <acole@ensolum.com>  
**Sent:** Wednesday, November 29, 2023 2:41 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 12/4/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of December 4<sup>th</sup>, 2023.

- Jalmat 188 / NAPP2235373931
  - Sampling Dates: 12/6/2023 – 12/8/2023 (between 9:00 am and 3:00 pm MT)
- Elvis Injection Line / NAPP2213642290
  - Sampling Dates: 12/4/2023 – 12/8/2023 (between 9:00 am and 3:00 pm MT)

Thank you,



**Aimee Cole**

Senior Managing Scientist

720-384-7365

**Ensolum, LLC**



**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 291740  
**Date:** Wednesday, December 6, 2023 11:12:01 AM

---

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/11/2023 @ 10:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Call 903-227-9483 to contact the scheduled sampler.

**Additional Instructions:** 32.820436, -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505



**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 292787  
**Date:** Friday, December 8, 2023 1:51:54 PM

---

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/12/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Sidewalls samples will be collected every 200 square feet. Per the approved work plan, floor samples will only be collected in areas where the excavation is shallower than 4 ft deep. No floor samples will be collected at depths of 4 feet or greater. Call 903-227-9483 to contact the scheduled sampler.

Excavation and confirmation sampling will continue from Dec 11, 2023 through Dec 22, 2023 between the hours of 9:00 am and 3:00 PM.

**Additional Instructions:** 32.820436, -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 293248  
**Date:** Monday, December 11, 2023 3:13:01 PM

---

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/13/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 293253  
**Date:** Monday, December 11, 2023 3:19:51 PM

---

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/14/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 294114  
**Date:** Wednesday, December 13, 2023 10:33:27 AM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/15/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 294116  
**Date:** Wednesday, December 13, 2023 10:35:50 AM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/18/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 295762  
**Date:** Monday, December 18, 2023 12:50:57 PM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/20/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 295763  
**Date:** Monday, December 18, 2023 12:53:01 PM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/21/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505



**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 295765  
**Date:** Monday, December 18, 2023 12:54:23 PM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 12/22/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365.

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 298780  
**Date:** Tuesday, January 2, 2024 9:26:47 AM

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You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 01/03/2023 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 298784  
**Date:** Tuesday, January 2, 2024 9:29:15 AM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 01/04/2024 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Contact Aimee Cole at 720-384-7365

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Aimee Cole](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 298788  
**Date:** Tuesday, January 2, 2024 9:32:25 AM

---

You don't often get email from [ocdonline@state.nm.us](mailto:ocdonline@state.nm.us). [Learn why this is important](#)

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

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2213642290.

The sampling event is expected to take place:

**When:** 01/05/2024 @ 09:00

**Where:** F-20-17S-32E 0 FNL 0 FEL (32.820368,-103.789382)

**Additional Information:** Aimee Cole at 720-384-7365

**Additional Instructions:** 32.820436 -103.789386

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Kalei Jennings](#)  
**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 170836  
**Date:** Tuesday, January 24, 2023 2:09:29 PM

---

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

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213642290, with the following conditions:

- **Remediation Plan 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.

Thank you,  
Jennifer Nobui  
Environmental Specialist-Advanced  
505-470-3407  
[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Kalei Jennings](#)  
**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 155448  
**Date:** Monday, November 28, 2022 3:57:33 PM

---

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

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213642290, for the following reasons:

- **Remediation Plan Denied.** The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Release has not been adequately delineated. Please resubmit a revised Remediation Plan to the OCD portal by December 28, 2022.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 155448.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,  
Jennifer Nobui  
Environmental Specialist-Advanced  
505-470-3407  
[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**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 315216

QUESTIONS

|  |                |
|--|----------------|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:         |
|  | 331199         |
|  | Action Number: |
|  | 315216         |
| Action Type:   |                |
| [C-141] Reclamation Report C-141 (C-141-v-Reclamation)                                 |                |

QUESTIONS

|                   |   |
|-------------------|---|
| Prerequisites     |   |
| Incident ID (n#)  | nAPP2213642290                          |
| Incident Name     | NAPP2213642290 ELVIS INJECTION LINE @ 0 |
| Incident Type     | Produced Water Release                  |
| Incident Status   | Reclamation Report Received             |
| Incident Facility | [fGRL0822131454] ELVIS BATTERY          |

|  |                      |
|--|----------------------|
| Location of Release Source                     |                      |
| Please answer all the questions in this group. |                      |
| Site Name                                      | ELVIS INJECTION LINE |
| Date Release Discovered                        | 05/04/2022           |
| Surface Owner                                  | Federal              |

|  |                        |
|--|------------------------|
| Incident Details   |                        |
| Please answer all the questions in this group.   |                        |
| Incident Type  | Produced Water Release |
| Did this release result in a fire or is the result of a fire   | No                     |
| Did this release result in any injuries  | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

|  |   |
|--|---|
| Nature and Volume of Release   |   |
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. |   |
| Crude Oil Released (bbls) Details  | Not answered.   |
| Produced Water Released (bbls) Details   | Cause: Corrosion   Flow Line - Injection   Produced Water   Released: 30 BBL   Recovered: 1 BBL   Lost: 29 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l  | Yes   |
| Condensate Released (bbls) Details   | Not answered.   |
| Natural Gas Vented (Mcf) Details   | Not answered.   |
| Natural Gas Flared (Mcf) Details   | Not answered.   |
| Other Released Details   | Not answered.   |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)                                 | Not answered.   |



**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, Page 2

Action 315216

**QUESTIONS (continued)**

|  |                |  |
|--|----------------|--|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:         | 331199   |
|  | Action Number: | 315216   |
|  | Action Type:   | [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)   | No, according to supplied volumes this does not appear to be a "gas only" report.  |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC  | Yes  |
| Reasons why this would be considered a submission for a notification of a major release   | From paragraph A. "Major release" determine using:<br>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |  |

**Initial Response**

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

|  |               |
|--|---------------|
| The source of the release has been stopped   | True          |
| The impacted area has been secured to protect human health and the environment                                     | True          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | True          |
| If all the actions described above have not been undertaken, explain why   | Not answered. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|  |   |
|--|---|
| I hereby agree and sign off to the above statement | Name: Aimee Cole<br>Email: <a href="mailto:acole@ensolum.com">acole@ensolum.com</a><br>Date: 02/16/2024 |
|--|---|

**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, Page 3

Action 315216

**QUESTIONS (continued)**

|  |                |
|--|----------------|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:         |
|  | 331199         |
|  | Action Number: |
|  | 315216         |
| 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  | Attached Document         |
| 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 ½ and 1 (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  | Between 1 and 5 (mi.)     |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between 1 and 5 (mi.)     |
| Any other fresh water well or spring   | Between 1 and 5 (mi.)     |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)      |
| A wetland  | Between ½ and 1 (mi.)     |
| A subsurface mine  | Greater than 5 (mi.)      |
| An (non-karst) unstable area   | Greater than 5 (mi.)      |
| Categorize the risk of this well / site being in a karst geology   | Low                       |
| A 100-year floodplain  | Between 1 and 5 (mi.)     |
| Did the release impact areas not on an exploration, development, production, or storage site                               | Yes                       |

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|   |     |
|---|-----|
| Requesting a remediation plan approval with this submission   | Yes |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |     |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes |
| Was this release entirely contained within a lined containment area   | No  |

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

|                   |                                    |      |
|-------------------|------------------------------------|------|
| Chloride          | (EPA 300.0 or SM4500 Cl B)         | 8760 |
| 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                        | 12/07/2023 |
| On what date will (or did) the final sampling or liner inspection occur     | 01/08/2024 |
| On what date will (or was) the remediation complete(d)                      | 01/08/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 6000       |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 1500       |
| What is the estimated surface area (in square feet) that will be remediated | 6000       |
| What is the estimated volume (in cubic yards) that will be remediated       | 1500       |

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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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 315216

**QUESTIONS (continued)**

|  |                |  |
|--|----------------|--|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:         | 331199   |
|  | Action Number: | 315216   |
|  | Action Type:   | [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |
|  |                |  |

**QUESTIONS**

|  |   |
|--|---|
| <b>Remediation Plan (continued)</b>  |   |
| <i>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.</i>   |   |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>   |   |
| <i>(Select all answers below that apply.)</i>  |   |
| (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  | R360 Artesia LLC LANDFARM [FEEM0112340644]  |
| <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)  | No  |
| (In Situ) Soil Vapor Extraction  | No  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)  | No  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)   | No  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)   | No  |
| Ground Water Abatement pursuant to 19.15.30 NMAC   | No  |
| OTHER (Non-listed remedial process)  | No  |
| <i>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>   |   |
| 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: Aimee Cole<br>Email: <a href="mailto:acole@ensolum.com">acole@ensolum.com</a><br>Date: 02/16/2024 |
| <i>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.</i>  |   |

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QUESTIONS, Page 5  
  
Action 315216

QUESTIONS (continued)

|  |  |
|--|--|
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|  | Action Number:<br><br>315216   |
|  | Action Type:<br><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 315216

**QUESTIONS (continued)**

|  |                |  |
|--|----------------|--|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:         | 331199   |
|  | Action Number: | 315216   |
|  | Action Type:   | [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |
|  |                |  |

**QUESTIONS**

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 298788     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/05/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 3          |
| What was the sampling surface area in square feet   | 500        |

**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   | Yes   |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes   |
| Was this release entirely contained within a lined containment area  | No  |
| 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   | Yes   |
| What was the total surface area (in square feet) remediated  | 6000  |
| What was the total volume (cubic yards) remediated   | 1500  |
| 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 | Yes   |
| What was the total surface area (in square feet) reclaimed   | 6000  |
| What was the total volume (in cubic yards) reclaimed   | 1500  |
| Summarize any additional remediation activities not included by answers (above)  | Excavation and soil sampling activities were completed as outlined in the approved Remediation Work Plan for this site. |

*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: Aimee Cole<br>Email: acole@ensolum.com<br>Date: 02/16/2024 |
|--|--|

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QUESTIONS, Page 7

Action 315216

**QUESTIONS (continued)**

|  |                |  |
|--|----------------|--|
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|  | Action Type:   | [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       | 6000 |
| What was the total volume of replacement material (in cubic yards) for this site | 1500 |

*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 reseeding commence(d)                   | 01/12/2024 |

|   |  |
|---|--|
| Summarize any additional reclamation activities not included by answers (above) | The excavation was backfilled and seeded with a BLM approved seed mix. Vegetation monitoring will be completed on an annual basis (at a minimum) until vegetation establishment is comparable to off-site conditions. Photographs of the backfilled excavation are provided in Appendix C. |
|---|--|

*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 reseeding 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: Aimee Cole<br>Email: acole@ensolum.com<br>Date: 02/16/2024 |
|--|--|

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QUESTIONS, Page 8  
  
Action 315216

QUESTIONS (continued)

|  |  |
|--|--|
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|  | Action Type:<br><br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS

|  |    |
|--|----|
| Revegetation Report  |    |
| Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.   |    |
| Requesting a restoration complete approval with this submission  | No |
| 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. |    |



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CONDITIONS

Action 315216

CONDITIONS

|  |  |
|--|--|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:<br>331199   |
|  | Action Number:<br>315216   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| nvelez     | None      | 4/10/2024      |